|    | Page 1                                 |  |  |  |  |
|----|--|--|--|--|--|
| 1  | IN THE UNITED STATES DISTRICT COURT    |  |  |  |  |
| 2  | FOR THE NORTHERN DISTRICT OF GEORGIA   |  |  |  |  |
| 3  | GAINESVILLE DIVISION                   |  |  |  |  |
| 4  |  |  |  |  |  |
| 5  | CASE NUMBER: 2:22-CV-017-RWS           |  |  |  |  |
| 6  |  |  |  |  |  |
| 7  | SANTANA BRYSON, et al.,                |  |  |  |  |
| 8  | Plaintiffs,                            |  |  |  |  |
| 9  | vs.                                    |  |  |  |  |
| 10 | ROUGH COUNTRY, LLC,                    |  |  |  |  |
| 11 | Defendant.                             |  |  |  |  |
| 12 |  |  |  |  |  |
| 13 | * * * * * * * * * * * *                |  |  |  |  |
| 14 |  |  |  |  |  |
| 15 |  |  |  |  |  |
| 16 | THE ORAL PROCEEDINGS                   |  |  |  |  |
| 17 | OF THE DEPOSITION OF G. BRYANT BUCHNER |  |  |  |  |
| 18 | JULY 11, 2024                          |  |  |  |  |
| 19 |  |  |  |  |  |
| 20 |  |  |  |  |  |
| 21 | REPORTER: Paul Morse                   |  |  |  |  |
| 22 | Certified Court Reporter               |  |  |  |  |
| 23 | and Notary Public                      |  |  |  |  |
|    |  |  |  |  |  |
|    |  |  |  |  |  |

|               |   |          | ·   |
|---------------|---|----------|---|
|               | Page 2  |          | Page 4  |
| 1             | IT IS FURTHER STIPULATED AND AGREED             | 1        | IN THE UNITED STATES DISTRICT COURT   |
| 2             | that the signature to and the reading of the    | 2        | FOR THE NORTHERN DISTRICT OF GEORGIA  |
| 3             | deposition by the witness is not waived, the    | 3        | GAINESVILLE DIVISION  |
| 4             | deposition to have the same force and effect as | 4        |   |
| 5             | if full compliance had been had with all laws   | 5        |   |
| 6             | and rules of Court relating to the taking of    | 6        | BEFORE:   |
| 7             | depositions.                                    | 7        | Paul Morse, Commissioner.   |
| 8             | IT IS FURTHER STIPULATED AND AGREED             | 8        |   |
| 9             | that it shall not be necessary for any          | 9        | APPEARANCES:  |
| 10            | objections to be made by counsel to any         | 10       | RICHARD HILL, ESQUIRE, of WEINBERG,   |
| 11            | questions except as to form or leading          | 11       | WHEELER, HUDGINS, GUNN & DIAL, 3344 Peachtree                                   |
| 12            | questions, and that counsel for the parties may | 12       | Road, Suite 2400, Atlanta, Georgia 30326,                                       |
| 13            | make objections and assign grounds at the time  | 13       | appearing on behalf of the Defendant.   |
| 14            | of the trial, or at the time said deposition is | 14       | TEDRA CANNELLA, ESQUIRE, of CANNELLA  |
| 15            | offered in evidence, or prior thereto.          | 15       | SNYDER, LLC, 315 West Ponce de Leon Avenue,                                     |
| 16            | IT IS FURTHER STIPULATED AND AGREED             | 16       | Suite 885, Decatur, Georgia 30030, appearing on                                 |
| 17            | that the notice of filing of the deposition by  | 17       | behalf of the Plaintiff.  |
| 18            | the Commissioner is waived.                     | 18       | DEVIN MASHMAN, ESQUIRE, of CANNELLA   |
| 19            |   | 19       | SNYDER, LLC, 315 West Ponce de Leon Avenue,                                     |
| 20            |   | 20       | Suite 885, Decatur, Georgia 30030, appearing on                                 |
| 21            | ******  | 21       | behalf of the Plaintiff.  |
| 22            |   | 22       | ALSO PRESENT: Jess Wiggins, Video   |
| 23            |   | 23       | ****  |
|               | Page 3  |          | Page 5  |
| 1             | INDEX   | 1        | I, Paul Morse, CCR, a Court Reporter of   |
| $\frac{1}{2}$ |   | 2        | Mobile, Alabama, acting as Commissioner,  |
| 3             | EXAMINATION                                     | 3        | certify that on this date, as provided by the                                   |
| 4             | PAGE  | 4        | Federal Rules of Civil Procedure and the  |
| 5             | By Mr. Hill 6                                   | 5        | foregoing stipulation of counsel, there came                                    |
| 6             |   | 6        | before me via Remote Videoconference, beginning                                 |
| 7             | By Mr. Hill                                     | 7        | at 10:00 a.m., G. Bryant Buchner, witness in                                    |
| 8             | <i>by</i> 1.11. 11111                           | 8        | the above cause, for oral examination,  |
| 9             |   | 9        | whereupon the following proceedings were had:                                   |
| 10            |   | 10       | whereupon the following proceedings were nau.                                   |
| 11            | EXHIBITS FOR THE DEPOSITION                     |          | THE VIDEOGRAPHER: Today's date is   |
| 12            | PAGE  | 12       | July 11, 2024. And the time is 10:15 a.m.                                       |
| 13            | Exhibit 1, Mr. Buchner's Report 7               |          | This will be the videotaped deposition of                                       |
| 14            |   | 13       |   |
| 15            | •   | 14       | George Bryant Buchner.  |
| 16            |   | 15       | Would counsel present please identify   |
|               |   | 16       | themselves for the record, starting with the                                    |
| 17<br>  18    | Exhibit P1, Example Image 303                   | 17       | taking attorney.  |
| 19            |   | 18       | MR. HILL: This is Rick Hill on  |
| 10            |   | 10       | 1 1 10 CD C 1 (D 1 C )  |
| 19            |   | 19       | behalf of Defendant Rough Country.  |
| 20            |   | 20       | MS. CANNELLA: Tedra Cannella and  |
| 20<br>21      | * * * * * * * * * * * * *                       | 20<br>21 | MS. CANNELLA: Tedra Cannella and Devin Mashman on behalf of the Plaintiffs, the |
| 20            | *********                                       | 20       | MS. CANNELLA: Tedra Cannella and  |

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|     | G. Bryant Buchner July 11, 202 |  |      |   |
|-----|--------------------------------|--|------|---|
|     |                                | Bryson, Santana and Joshu                      | ıa v | . Rough Country, LLC                            |
|     |                                | Page 6   |      | Page 8  |
|     | 1                              | Would the Court Reporter please swear in the   | 1    | was run in October-ish of '23. The depo was in  |
|     | 2                              | witness.                                       | 2    | January. And I hadn't opened the file or        |
|     | 3                              |  | 3    | looked at it. And when we went to retrieve it,  |
|     | 4                              | G. BRYANT BUCHNER,                             | 4    | it basically didn't exist. The run file did     |
|     | 5                              | having first been duly sworn, testified as     | 5    | not exist. And so we could not we did           |
|     | 6                              | follows:                                       | 6    | everything we could to try to locate it and     |
|     | 7                              |  | 7    | find it. And all that we can think of is that   |
|     | 8                              | EXAMINATION                                    | 8    | something happened during the save process.     |
|     | 9                              | BY MR. HILL:                                   | 9    | And so I had just had no idea that that         |
|     | 10                             | Q. Thank you, Mr. Buchner. I'm going           | 10   | thing wasn't there. I hadn't looked for it in   |
|     | 11                             | to start with your May 8, 2024 letter to       | 11   | months. So that's that's the unforeseen         |
|     | 12                             | Ms. Cannella. And I will share my screen or at | 12   | technical issue. It happens to, you know, all   |
|     | 13                             | least attempt to share it                      | 13   | of us at times when you think you've saved      |
|     | 14                             | A. Okay.                                       | 14   | something and it didn't get saved properly or   |
|     | 15                             | Q and put that letter up. I'm                  | 15   | maybe there was a corruption in the you         |
|     | 16                             | sure you probably have it there in front of    | 16   | know, on the computer disc somewhere. I don't   |
|     | 17                             | you.   | 17   | know.   |
|     | 18                             | A. I'm really bad on dates. So I'll            | 18   | Maybe somebody opened it later on and           |
|     | 19                             | look at it and see what we're what we're       | 19   | thought it was something else and moved it to a |
|     | 20                             | talking about when you pull it up.             | 20   | folder and we can't find it. I don't know.      |
|     | 21                             | Q. All right. Are you able to see              | 21   | Q. What is the process after you run            |
|     | 22                             | the screen now?                                | 22   | an HVE simulation to save the files associated  |
|     | 23                             | A. Yes, sir.                                   | 23   | with that simulation?                           |
| r   |                                | Page 7   |      | Page 9  |
|     | 1                              | Q. All right. This is a letter from            | 1    | A. Well, it it really ought to be               |
|     | 2                              | you to Ms. Cannella dated May 8, 2024. It's    | 2    | saved and moved into the you know, into the     |
|     | 3                              | bates labeled Bryson 09348 through 09377. And  | 3    | job file and put into engineering analysis,     |
|     | 4                              | I'd like to mark this as Exhibit 1 to your     | 4    | which you've probably seen my EA folders,       |
|     | 5                              | deposition.                                    | 5    | engineering analysis folders. It wasn't         |
|     | 6                              | (Defendant's Exhibit Number 1                  | 6    | that that final step apparently didn't          |
|     | 7                              | is marked for identification.)                 | 7    | happen. It was still on the simulation          |
|     | 8                              | A. Can we call it the FR26 amended             | 8    | computer. At least that's where we thought it   |
|     | 9                              | report? Because that's that's why I didn't     | 9    | was. And but it didn't it just wasn't in        |
|     | 10                             | know what you were talking about. I'm okay if  | 10   | any other place. I don't think it ever got      |
| - 1 |                                |  | 1    |   |

10 know what you were talking about. I'm okay if 11 you call it a letter. But I'd rather call it 12 the amended report. 13 Q. Sure. The Re line says FR26 14 amended report. And so I'll reference it by 15 that name. 16 A. Thank you kindly. 17 Q. Sure. In the first paragraph 18 you'll see that you use -- you state that an 19 unforeseen technical issue resulted in the loss

20 of the original simulation file. Just so we're 21 clear, what do you mean by an unforeseen

A. Well, I think that the simulation

moved was the problem. That's the reason I --12 I needed to go get a copy of it. Q. And when you say later on in 14 this -- on this page that -- at the bottom you said since the simulation had been corrupted, 16 what do you mean by the term corrupted? A. Well, whatever we found did not --18 we went back to the archives and everything. 19 We never found anything that looked like the 20 accident one. And it's even suspect that the printout that I was using was -- was from the 22 one that I had looked at back in October. So the word corrupted is kind of a general

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13

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800.808.4958

23

22 technical issue?

|    | Dryson, Santana and Joshi                       | <i></i> | . Rough Country, EEC                            |
|----|---|---------|---|
|    | Page 10   |         | Page 12   |
| 1  | term between losing it, between, you know,      | 1       | But what we have now is is a                    |
| 2  | not not having the right data. It's just        | 2       | representation of everything I said in my in    |
| 3  | it was meant to be a I think originally we      | 3       | my deposition. And it gives the right answers.  |
| 4  | thought maybe it had been corrupted. But in     | 4       | It gives the same answers that I thought I had  |
| 5  | the end I think it's corrupted, the term        | 5       | at the time of the depo.                        |
| 6  | changed or something. But it couldn't be        | 6       | Q. When did you discover that the               |
| 7  | opened.   | 7       | printouts that you provided to us related to    |
| 8  | But in the end, we we've never found one        | 8       | the original simulation that were provided a    |
| 9  | that we think was it, period.                   | 9       | week before your deposition in January, when    |
| 10 | Q. So when you produced the printouts           | 10      | did you discover that those were not correct or |
| 11 | prior to your deposition in January that        | 11      | did not have the, you know, appropriate data    |
| 12 | related to this original simulation, are you    | 12      | reflecting the simulation that you produced     |
| 13 | saying that you are not sure whether those      | 13      | that we discussed in your first deposition?     |
| 14 | printouts were the same printouts or data that  | 14      | A. Well, it I mean, it may have                 |
| 15 | you were looking at when you ran the original   | 15      | been a couple of months. We were under the      |
| 16 | simulation in October? Explain that to me.      | 16      | mistaken belief that we were just looking for a |
| 17 | A. Yeah. That that's true. Back                 | 17      | file. And then as time went on and we kept      |
| 18 | in October I looked at the data. I looked at    | 18      | pealing back, looking and thinking, we went all |
| 19 | the answers. They were printed or at least      | 19      | the way back and finally opened that up and     |
| 20 | I asked for them to be printed. I don't you     | 20      | looked and said, okay, let's try to rerun with  |
| 21 | know, I'm not the printer guy or the filer guy. | 21      | this data. And then we started trying to do     |
| 22 | And it's almost as if what was picked up was an | 22      | the rerun and we realized things weren't I'm    |
| 23 | early iteration or something because some of    | 23      | going to use the things were consistent with    |
|    | Page 11   |         | Page 13   |
| 1  | the data was just wrong.                        | 1       | what I'd said in my deposition. So I mean, it   |
| 2  | And so I you know, it was months before,        | 2       | was and we had other work that was going on.    |
| 3  | but I thought that we had had that we had       | 3       | We had prepared for the depo, and we were busy  |
| 4  | all of that. And during the deposition, I       | 4       | with other things.                              |
| 5  | clearly said, no, these are all of the reports  | 5       | And so what I thought was a simple, hey, go     |
| 6  |   | 6       | find the file and present it kept getting       |
| 7  | checked. They clearly weren't all of the        | 7       | harder and more complicated and more            |
| 8  | reports. And so we went and just did            | 8       | complicated. And we kept realizing that we had  |
| 9  | everything we could, and we could not resurrect | 9       | a bad concept, which is that we were just       |
| 10 | anything that I can be confident was what I had | 10      | looking for a missing file. What we were        |
| 11 | looked at back in October.                      | 11      | looking for was something that probably didn't  |
| 12 | So we can make some guesses. But I can't        | 12      | exist.  |
| 13 | make I can't know. So my opinions are           | 13      | Q. So just to be clear, when you run            |
| 14 | you know, were well recorded in my depo and,    | 14      | an HV simulation, it produces a graphical       |
| 15 | you know, the opinions haven't changed. But we  | 15      | depiction of the crush                          |
| 16 | really just had to re-enter the data. And we    | 16      | A. Yes.   |
| 17 | made an improvement or two, you know, that      | 17      | Q based on the simulation.                      |
| 18 | you know, to make sure that we had it right     | 18      | Correct?  |
| 19 | like the 0.04 inches on the tire or something   | 19      | A. Yes. If you if you ask it to,                |
| 20 | like that, whatever it was. But you know, so    | 20      | it will.  |
| 21 | at the end of the day, we don't have anything   | 21      | Q. Right. It can do that?                       |
| 22 | that survived that I can validate as being what | 22      | A. Yes.   |
| 23 | I looked at back in October.                    | 23      | Q. And that was produced with regard            |

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|          | Bryson, Santana and Joshi  | ıa v.         | . Rough Country, ELC  |
|----------|--|---------------|---|
|          | Page 14  |               | Page 16   |
| 1        | to your original simulation prior to your first  | 1             | well.   |
| 2        | deposition?  | 2             | Q. Sure. Sorry if it wasn't crafted   |
| 3        | A. Yes.  | 3             | very artfully. Let me try to make it simpler.   |
| 4        | Q. And was that graphical  | 4             | So you just said that the graphical   |
| 5        | representation of the crush with the other data  | 5             | representation of the crush and the data on   |
| 6        | that's on there, was that consistent with the  | 6             | that that was produced to us prior to your  |
| 7        | HV simulation that you actually ran in October,  | 7             | deposition, that it you can't confirm   |
| 8        | or was that also corrupted as well?  | 8             | whether it actually is representative of the  |
| 9        | A. I all I have is the images.   | 9             | simulation you ran in October of 2023?  |
| 10       | I I can't tell. That's part of the problem.  | 10            | A. Not exactly. It is it is   |
| 11       | So we've generated new images. You can't tell  | 11            | representative in that I can't tell the   |
| 12       | the difference in the new images and the old   | 12            | difference between it and what we ran. In   |
| 13       | images, at least I can't visually looking at   | 13            | other words, it looks it looks like what I  |
| 14       | them because the the crush is very similar.  | 14            | remember. It looks like what our results are  |
| 15       | In other words, it would take you know,  | 15            | today. But I can't tell you if it actually was  |
| 16       | you'd have to make some pretty fine  | 16            | the printout from it. But the crush that's  |
| 17       | measurements to see if there's differences.  | 17<br>18      | shown there is is representative because it's indiscernible from the crush that we know |
| 18<br>19 | But so I don't know. What I know is that what  | 19            | is reasonable and accurate in the rerun.  |
| 20       | we've what we have provided in this supplemental report is consistent with what          | 20            |   |
| 21       | I've said in the deposition. And it's and  | 21            | <ul><li>Q. Right. When you</li><li>A. Yeah. So thank you.</li></ul>                     |
| 22       | we have made sure as best of our ability to get  | 22            | Q. Well, that's a that's a good   |
| 23       | the numbers that I used in my deposition the   | 23            | answer. But even though it may be similar or  |
| 23       |  | 23            |   |
|          | Page 15  | 1             | Page 17   |
| 1        | way I said I thought we had run it correct   | $\frac{1}{2}$ | representative, you can't verify that it's the  |
| 2        | here.  | 2 3           | actual result of the the original simulation?   |
| 3        | Q. All right. I appreciate that.   | 4             |   |
| 4        | But I'd like to just first talk about the original simulation. We'll get to the rerun or | 5             | A. Right. It was indiscernible to me from the actual result.                            |
| 5        | amended simulation. But with regard to the   | 6             | Q. Right.   |
| 6 7      | original simulation that was produced to us in   | 7             | A. But I can't tell you if that was   |
| 8        | October of 2023 and upon which your initial  | 8             | actually printed from the actual result. But I  |
| 9        | deposition was based and upon which your report  | 9             | can tell you that it was good enough that it  |
| 10       | was based, I want to make sure I'm   | 10            | that I did not detect it when I was using it  |
| 11       | understanding. What you produced to us in  | 11            | for the deposition.   |
| 12       | January that related to that original  | 12            | Q. Right. And the same question with  |
| 13       | simulation, not just the backup files but also   | 13            | regard to all of the backup files that related  |
| 14       | the results of the simulation, are you saying  | 14            | to that original. I don't want to go through  |
| 15       | that you can't confirm that anything related to  | 15            | every one individually, so we'll start it with  |
| 16       | the simulation that was produced to us prior to  | 16            | a broad question.   |
| 17       | your deposition was actually representative of   | 17            | You have a certain number of backup files,  |
| 18       | the October simulation that you ran that you   | 18            | an environment file, this file, that file. Is   |
| 19       | based your opinions on?  | 19            | the same true that all of those files that  |
| 20       | A. Okay. Really long question. Ask   | 20            | were that were printed and produced to us,  |
| 21       | the last part of it so I know the crux of the  | 21            | the ones you could find prior to your   |
| 22       | question. I heard every I heard the lead-in  | 22            | deposition, you can't verify if those were the  |
|          | really well. I didn't hear the question really   | 23            | actual files that were generated when you ran   |
|          | · · · · · · · · · · · · · · · · · · ·  |               |   |

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|                                  | Bryson, Santana and Joshua V. Rough Country, LLC  |                                  |  |  |  |
|----------------------------------|---|----------------------------------|--|--|--|
|                                  | Page 18   |                                  | Page 20  |  |  |
| 1                                | the original simulation?  | 1                                | know, we it took a couple of months. I   |  |  |
| 2                                | A. I don't I don't think at the   | 2                                | don't know the exact time. But it wasn't a   |  |  |
| 3                                | end of the day they were. I mean, that's part   | 3                                | week for sure. It was unfortunately an   |  |  |
| 4                                | of my problem that, you know, that work had   | 4                                | extended period of time because I was I  |  |  |
| 5                                | been done back in October. Somehow in the   | 5                                | thought it was going to be an easy process, and  |  |  |
| 6                                | saving and filing process, what we what I   | 6                                | it wasn't. And then in the end, you know, it   |  |  |
| 7                                | was looking at and what I did, did not make it  | 7                                | took more a couple months or more.   |  |  |
| 8                                | into the file.  | 8                                | Q. And when you say it took a couple   |  |  |
| 9                                | Q. Okay. And so another way maybe to  | 9                                | months or more, you mean from when? From the   |  |  |
| 10                               | put it would be the October simulation upon   | 10                               | time of your deposition?   |  |  |
| 11                               | which you base your report was not saved and  | 11                               | A. Oh yeah. It was months after the  |  |  |
| 12                               | put aside in the file in the form that it   | 12                               | deposition.  |  |  |
| 13                               | existed when the original simulation was run?   | 13                               | Q. That's what I'm trying to clarify.  |  |  |
| 14                               | A. Yes.   | 14                               | A. Yes. But I don't know how long.   |  |  |
| 15                               | Q. And then when you went to produce  | 15                               | I'm just trying to give you an approximate   |  |  |
| 16                               | it prior to your deposition, you went back in,  | 16                               | feeling for the timeframe. It wasn't days or   |  |  |
| 17                               | and it had been changed or corrupted or   | 17                               | weeks. It was months. I don't know how long.   |  |  |
| 18                               | something was different about it when you went  | 18                               | Q. And so you don't know an exact  |  |  |
| 19                               | back in to produce it to us prior to your   | 19                               | date that you finally realized, hey, not only  |  |  |
| 20                               | deposition?   | 20                               | can we not find the missing files, but the   |  |  |
| 21                               | A. Right. We could never find a file  | 21                               | files that we produced during the deposition   |  |  |
| 22                               | that we had any confidence or that was the  | 22                               | were not connected with the initial simulation.  |  |  |
| 23                               | file that we had used in October. It just   | 23                               | You those were two different discoveries.  |  |  |
|                                  | Page 19   |                                  | Page 21  |  |  |
| 1                                | just we could not in any shape, form, or  | 1                                | Right?   |  |  |
| 2                                | fashion locate that. So we had to redo it.  | 2                                | A. Ask that question again.  |  |  |
| 3                                | Q. Okay. And so none of the data  | 3                                | Q. Sure. So there were certain   |  |  |
| 4                                | files, whatever, related to the original  | 4                                | backup files that were missing at the time of  |  |  |
| 5                                | simulation upon which you based your your   | 5                                | your deposition. There was there was no  |  |  |
| 6                                |   | 6                                | data produced of any type at your deposition.  |  |  |
| 7                                | of this time, at least that you can find?   | 7                                | Correct?   |  |  |
| 8                                | A. That is true.  | 8                                | A. No. You're  |  |  |
| 9                                | Q. Okay. And when did you discover  | 9                                | MS. CANNELLA: Object to the form   |  |  |
| 10                               | that all of the data and all of the files   | 10                               | of the question as vague.  |  |  |
| 11                               | related to that original simulation no longer   | 11                               | A. The the HVE run files were not  |  |  |
| 12                               | existed?  | 12                               | produced at the time of the deposition.  |  |  |
| 13                               | A. Like I said, it took a couple of   | 13                               | Q. Right.  |  |  |
| 14                               | months. We were working on other things. I  | 14                               | A. Some printout reports some  |  |  |
| 15                               |   |                                  | printout reports were produced. Thank you.   |  |  |
| 1 1 2                            | thought it was a simple procedure. It happens   | 15                               |  |  |  |
|                                  | thought it was a simple procedure. It happens commonly that a file gets left on another   | 15<br>16                         |  |  |  |
| 16                               | commonly that a file gets left on another   | 16                               | Q. Right. And so you thought you   |  |  |
| 16<br>17                         | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is   | 16<br>17                         | Q. Right. And so you thought you were just looking for the missing HVE run file  |  |  |
| 16<br>17<br>18                   | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is put in. And we were doing other work that was   | 16<br>17<br>18                   | Q. Right. And so you thought you were just looking for the missing HVE run file at the time after  |  |  |
| 16<br>17<br>18<br>19             | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is put in. And we were doing other work that was scheduled. And every time I inquired, we're   | 16<br>17<br>18<br>19             | Q. Right. And so you thought you were just looking for the missing HVE run file at the time after A. After when I when I walked  |  |  |
| 16<br>17<br>18<br>19<br>20       | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is put in. And we were doing other work that was scheduled. And every time I inquired, we're working on it and we thought somebody would say                                     | 16<br>17<br>18<br>19<br>20       | Q. Right. And so you thought you were just looking for the missing HVE run file at the time after A. After when I when I walked out of my deposition, I thought I was missing  |  |  |
| 16<br>17<br>18<br>19<br>20<br>21 | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is put in. And we were doing other work that was scheduled. And every time I inquired, we're working on it and we thought somebody would say they they did something. And when I | 16<br>17<br>18<br>19<br>20<br>21 | Q. Right. And so you thought you were just looking for the missing HVE run file at the time after A. After when I when I walked out of my deposition, I thought I was missing whatever HVE files were used to generate the |  |  |
| 16<br>17<br>18<br>19<br>20       | commonly that a file gets left on another computer, doesn't make it in, or a miscopy is put in. And we were doing other work that was scheduled. And every time I inquired, we're working on it and we thought somebody would say                                     | 16<br>17<br>18<br>19<br>20       | Q. Right. And so you thought you were just looking for the missing HVE run file at the time after A. After when I when I walked out of my deposition, I thought I was missing  |  |  |

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|----|--|----|--|--|
|    | Page 22  |    | Page 24  |  |
| 1  | Q. Right. But you believed the files             | 1  | Something something from another preliminary   |  |
| 2  | that you did print and produce were actually     | 2  | effort, you know, made it in there. That's     |  |
| 3  | accurate and associated with the original        | 3  | so it's a filing error. That's that's all      |  |
| 4  | simulation?                                      | 4  | that happened. I don't know what it was. I     |  |
| 5  | A. Yes.  | 5  | had no idea other than when I tried to         |  |
| 6  | Q. Okay. And so that's two different             | 6  | validate what I testified to, what I had       |  |
| 7  | discoveries. One is we can't find the HVE run    | 7  | recorded as, you know, what the runs showed me |  |
| 8  | file. Right?                                     | 8  | and what I tried to testify to, it didn't it   |  |
| 9  | A. Yes.  | 9  | was inconsistent with what I had that was in   |  |
| 10 | Q. And two is, oh, the files we did              | 10 | the file.                                      |  |
| 11 | produce were not associated with the original    | 11 | Q. And you just alluded to you think           |  |
| 12 | simulation?                                      | 12 | those were preliminary runs, meaning runs done |  |
| 13 | A. Well, the reports we did produce,             | 13 | prior to your original simulation?             |  |
| 14 | yes.   | 14 | A. Right. The all simulations are              |  |
| 15 | Q. Right. And so when did you                    | 15 | iterative. All calculations are iterative.     |  |
| 16 | discover that the reports that you produced      | 16 | You have to start building it and work on it.  |  |
| 17 | were not associated with the original            | 17 | But there were yeah, so it's just this         |  |
| 18 | simulation?                                      | 18 | that was not the final work that was there     |  |
| 19 | A. Well, that took a long time, as I             | 19 | and period.                                    |  |
| 20 | said earlier, because we thought we were just    | 20 | Q. But it existed in January. And              |  |
| 21 | looking for a missing electronic copy. When we   |    | you went to print them out to produce them for |  |
| 22 | couldn't find that, then we said, okay, we need  | 22 | your deposition?                               |  |
| 23 | to reproduce a reasonable electronic copy.       | 23 | A. No. No. They had been printed               |  |
| 23 |  | 23 |  |  |
| 1  | Page 23  | 1  | Page 25  |  |
| 1  | We started trying to use the reports, and I      | 1  | way back in October. And I hadn't touched them |  |
| 2  | found some things that that were                 | 2  | for months. I didn't even I didn't even        |  |
| 3  | inconsistent with what my memory was as to what  | 3  | look at them getting ready for the deposition  |  |
| 4  | should have been there. So suddenly we started   | 4  | because they all of that work had been         |  |
| 5  | looking at those reports and we realized, hey,   | 5  | finished in October, to my knowledge, and it   |  |
| 6  | something something looks like it happened       | 6  | had been put in the file. And we had           |  |
| 7  | on that level as well. So that took a while.     | 7  | summarized the results in I think the the      |  |
| 8  | It was it was not weeks or days. It was          | 8  | FR26 report we did, and that's what I was      |  |
| 9  | it was, you know, over a month for sure.         | 9  | using.   |  |
| 10 | Q. How did the reports survive but               | 10 | Q. Okay. So that's what I want to              |  |
| 11 | the HVE run files did not?                       | 11 | make sure I understood. So the printouts of    |  |
| 12 | A. Okay. Well, and that's I've                   | 12 | the reports that were produced, including the  |  |
| 13 | already alluded to that. But at the time of my   | 13 | results of the simulation, you're you're       |  |
| 14 | deposition, I thought all of the reports had     | 14 | saying those were printed out back in October  |  |
| 15 | been printed and that's what I testified to. I   | 15 | contemporaneous with the running of the        |  |
| 16 | thought they had just been printed and put in    | 16 | original simulation?                           |  |
| 17 | the file. That's what me belief was back in      | 17 | A. Well, that's that's the problem             |  |
| 18 | October when we did it. But what was there was   | 18 | is I don't know because the my look, my        |  |
| 19 | only partial reports.                            | 19 | intent is to do the work and then file the     |  |
| 20 | And so somehow in the printing process           | 20 | work. Do the work, file the work, use the      |  |
| 21 | and whoever was getting them or whoever was      | 21 | work. I something happened between when I      |  |
| 22 | filing them, what what I was using back in       | 22 | did that and wrote the report. I don't         |  |
| 23 | October did not end up in the file.              | 23 | remember the date of the report. Does anybody  |  |

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|       | Bryson, Santana and Joshua V. Rough Country, LLC                          |  |   |  |
|-------|---|--|---|--|
|       | Page 26   |  | Page 28   |  |
| 1     | remember the original report? Because it will                             | 1  | know what my intent was with what I was using.  |  |
| 2     | help me.  | 2  | But as I sit here, I I don't know. That was   |  |
| 3     | Q. October 13, I believe.   | 3  | a that was some kind of a problem that  |  |
| 4     | A. Okay. So that's why I keep saying                                      | 4  | happened. And I don't know when it happened   |  |
| 5     | I didn't as we were writing that report, I'm                              | 5  | exactly. But I do know that when I wrote my   |  |
| 6     | using I'm looking at something on a computer                              | 6  | report in October 12, I think is what you told  |  |
| 7     | screen, and I'm doing my work. I'm getting my                             | 7  | me, 2023, I had data that I was using. And  |  |
| 8     | report done. Then months later I you know,                                | 8  | I you know, it's not uncommon for me to have  |  |
| 9     | I believe that that stuff has been properly                               | 9  | my working copy that I'm using to type the  |  |
| 10    | filed by my staff. And and you know, I                                    | 10                                       | report, and then my work copy goes in the trash   |  |
| 11    | mean, heck, it could be me that didn't hand the                           | 11                                       | can.  |  |
| 12    | right document. I thought something had been                              | 12                                       | And the file copy is supposed to be in the  |  |
| 13    | printed.  | 13                                       | file. Well, that file copy wasn't what I used   |  |
| 14    | I'm not blaming anybody. I'm just saying                                  | 14                                       | to do my FR26 report. I mean, that's just   |  |
| 15    | something happened with whatever I was using in                           | 15                                       | and then the electronic file was supposed to be   |  |
| 16    | October that I relied on that was still there                             | 16                                       | there to go back and resurrect. It it's not   |  |
| 17    | in January. I testified using my final report.                            | 17                                       | there.  |  |
| 18    | And then when I tried to give it to you or                                | 18                                       | Q. So you don't know when the file  |  |
| 19    | referenced it, it the documents that I                                    | 19                                       | copy was printed that was produced to us? That  |  |
| 20    | thought were there weren't there. That's                                  | 20                                       | was my question.  |  |
| 21    | that's what happened.   | 21                                       | A. My my belief was it would have   |  |
| 22    | I if I had known there was a mistake in                                   | 22                                       | been done back in August. But I mean, it's  |  |
| 23    | October, I would have I gladly would have                                 | 23                                       | possible someone, you know I said August.   |  |
|       | Page 27   |  | Page 29   |  |
| 1     | fixed it, you know, before the deposition or                              | 1  | In October is what I meant. I don't I don't   |  |
| 2     | would have, you know, reproduced that work.                               | 2  | know.   |  |
| 3     | I I just didn't know. We had too many other                               | 3  | When I started this conversation, I would   |  |
| 4     | things we were working on in this case and                                | 4  | have said it was in October because that's when   |  |
| 5     | other cases that I had confidence in my                                   | 5  | it was supposed to have been. But as I sit  |  |
| 6     | filing process. And anybody that's ever tried                             | 6  | here, I didn't do the printing of that  |  |
| 7     |   | 7  | document. And I didn't do the filing of that  |  |
| 8     | time to time.   | 8  | document to the best of my knowledge. And it's  |  |
| 9     | Q. All right. Well, whatever reports                                      | 9  | not the same document I was using when I did my   |  |
| 10    | are associated with your original simulation                              | 10                                       | October letter.   |  |
| 11    | A. Uh-huh.  | 11                                       | Q. Prior to sorry. Go ahead. I  |  |
| 12    | Q or let me or scratch that.  | 12                                       | didn't mean to  |  |
| 13    | I'll ask it a different way.  | 13                                       | A. So the answer is I don't know.   |  |
| 14    | The reports related to an no. Scratch                                     | 14                                       | Thank you.  |  |
| 15    | that. Let me think through this a second.                                 | 15                                       | Q. And prior to your deposition, you  |  |
| 16    | Hold on.  | 16                                       | also produced some digital files related to the   |  |
| 17    | You your office produced to us prior to                                   | 17                                       | HVE simulation. Correct?  |  |
| 18    | your deposition in January of 2024 reports                                | 18                                       | A. I don't remember that.   |  |
| 19    | related to an HVE simulation. And are you                                 | 19                                       | Q. Okay. We asked for you to produce  |  |
| 20    | telling me that you can't identify when those                             | 20                                       | the actual digital files that related to your   |  |
| 1     |   |  |   |  |
| 21    | documents were printed that were produced to us                           | 21                                       | HVE simulation. And my understanding is that  |  |
| 21 22 | documents were printed that were produced to us prior to your deposition? | $\begin{vmatrix} 21 \\ 22 \end{vmatrix}$ | HVE simulation. And my understanding is that you produced to us the digital files you could |  |
|       |   |  |   |  |

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|                                       | Bryson, Santana and Joshua v. Rough Country, ELC |  |  |  |
|---------------------------------------|--|--|--|--|
|                                       | Page 30  |  | Page 32  |  |
| 1                                     | Is that your understanding?                      |  | licenses. That's on another computer.          |  |
| 2                                     | A. I don't I don't remember that.                | 2  | Q. Who was the person that performed           |  |
| 3                                     | My memory is just not it's just blank on         | 3  | that job with regard to the original           |  |
| 4                                     | that. I don't know. If you have those files,     | 4  | simulation?                                    |  |
| 5                                     | that's great. If you don't, I don't I don't      | 5  | A. Jacob Brennan.                              |  |
| 6                                     | know the answer to the question.                 | 6  | Q. All right. And so who performed             |  |
| 7                                     | Q. Well, they would obviously                    | 7  | that job with regard to the rerun?             |  |
| 8                                     | represent the printouts. And so if those files   | 8  | A. Jacob Brennan.                              |  |
| 9                                     | were actually produced, you don't know, you      | 9  | Q. Okay. And you're saying that you            |  |
| 10                                    | know, if they relate to the original simulation  | 10                                       | don't know the process for saving and          |  |
| 11                                    | or not. Right?                                   | 11                                       | preserving the HVE files, that I would have to |  |
| 12                                    | A. Because I don't know what files               | 12                                       | have ask Jacob about that process?             |  |
| 13                                    | you're talking about. I can't even answer the    | 13                                       | A. No. You click save, and it goes             |  |
| 14                                    | question.  | 14                                       | on that computer. And then you take a copy of  |  |
| 15                                    | Q. Okay. When you did the rerun,                 | 15                                       | that, and you put it, you know, on the server  |  |
| 16                                    | you you did properly save the HVE files          | 16                                       | where it could be provided to people like you. |  |
| 17                                    | related to the rerun. Right?                     | 17                                       | That's I don't you know, that's the same       |  |
| 18                                    | A. And those were and those were                 | 18                                       | for every single file. Everybody in the        |  |
| 19                                    | sent out with the amended report. My             | 19                                       | building has their own work and they save it   |  |
| 20                                    | understanding is you should have those, yes.     | 20                                       | how they want to under what name they want and |  |
| 21                                    | Q. Right. And what was the process               | 21                                       | just put it on the server. And then I you      |  |
| 22                                    | used to save those files?                        | 22                                       | know, if I want to change the name of it or    |  |
| 23                                    | A. I don't know. I didn't do that.               | 23                                       | something, I can. But it's the same I don't    |  |
|                                       | Page 31  |  | Page 33  |  |
| 1                                     | It was it was done by the gentleman that         | 1  | know what I mean, I wasn't there when he       |  |
| 2                                     | input the data. And I haven't actually opened    | 2  | clicked the button. But we all know how to     |  |
| 3                                     | that file myself. I said I verified that         | 3  | save a file.                                   |  |
| 4                                     | that file is this file that I have these         | 4  | Q. Okay. And how do you review it              |  |
| 5                                     | reports from. He said he did that. And then      | 5  | once he runs the report? Does he print it out  |  |
| 6                                     | that was sent to you.                            | 6  | for you? Do you click on the report on a       |  |
| 7                                     | Q. Okay. So explain that to me. So               | 7  | computer? How do you review it once it's been  |  |
| 8                                     | you don't actually run the simulation. You       | 8  | run?   |  |
| 9                                     | just provide instructions for someone else to    | 9  | A. All of the above. I mean, it                |  |
| 10                                    | run the simulation?                              | 10                                       | depends on how I want to do it that day.       |  |
| 11                                    | A. No, I'll never open it and I'll               | 11                                       | Q. Okay. And so you might actually             |  |
| 12                                    | never save it. I'll go I will go make            | 12                                       | access the actual file on your computer and    |  |
| 13                                    | adjustments to it or look at it and I will sit   | 13                                       | look at it in digital form?                    |  |
| 14                                    | with him when he does that as needed. Yes.       | 14                                       | A. You may be misleading there.                |  |
| 15                                    | But I'm not the I don't open/take care of        | 15                                       | Q. Okay.                                       |  |
| 16                                    | the HVE software suite. All of that is done by   | 16                                       | A. If it's if it's saved as a                  |  |
| 17                                    | someone else. I'm a user of it. And I don't      | 17                                       | PDF  |  |
| 18                                    | end up saving it because we I don't want to      | 18                                       | Q. Okay.                                       |  |
| 19                                    | make a mistake on it. I want the person who's    | 19                                       | A I can access it and read it at               |  |
| 20                                    | running that to to do that job.                  | 20                                       | my computer. But I can also print it and then  |  |
| 21                                    | Q. Who is  | $\begin{vmatrix} 20 \\ 21 \end{vmatrix}$ | just look at it in hard copy form. However I   |  |
| $\begin{vmatrix} 21\\22\end{vmatrix}$ | A. And I can't run them on my                    | $\begin{vmatrix} 21\\22\end{vmatrix}$    | want to do it on that day depending on what my |  |
| 23                                    | computer in here because I don't have the right  | 23                                       | schedule is and what I'm you know, what my     |  |
|                                       | compater in here occause I don't have the fight  |  | senedule is and what I iii you know, what my   |  |

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|  | Diyson, Santana and Josh  |  |   |
|--|---|--|---|
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| 1  | needs are. I mean, someone else may be you  | 1  | how I did that. But I do know that when I   |
| 2  | know, it may be better for me to go to a  | 2  | 8   |
| 3  | conference room where I can spread out. It  |  | I was confident from a were the   |
| 4  | depends on what I'm on what's convenient for  | 4  | 1   |
| 5  | me on that day.   | 5  | intending to run at that time.  |
| 6  | Q. Right. I guess what I'm trying to  | 6  | Q. And those outputs would have been  |
| 7  | clarify is you're not actually going into the   | 7  | either a printed format or a PDF file?  |
| 8  | HVE software and opening up that. You're  | 8  | A. Potentially, yes. I don't know.  |
| 9  | looking at it either in a PDF of the results or   | 9  | Q. And in order to print them, you  |
| 10   | a printed version of the results?   | 10   | have to convert them to a PDF file. Correct?  |
| 11   | A. Right. Of the report. And but  | 11   | A. Usually, yes.  |
| 12   | but when he's running it, I have the option to  | 12   | Q. Okay.  |
| 13   | go back in sitting with him. And you know, if   | 13   | A. But I'm not you know, he can   |
| 14   | he has a question, I'll drop in and and, you  | 14   | he can probably print them directly. I don't  |
| 15   | know, talk about what's going on and where he   | 15   | know. I have not done the printing out of the   |
| 16   | is or he can come and, you know, make a choice  | 16   | program. I'd have to go see. I don't know if  |
| 17   | for him. Or if he wants he'll come down here  | 17   | he can print just directly from   |
| 18   | and ask me a question when he's doing it.   | 18   | Engineering Dynamics HVE Suite. I don't know  |
| 19   | So you know, it's all of the above. It's,   | 19   | the answer.   |
| 20   | you know, pretty normal stuff. It's the way   | 20   | Q. Well, with regard to the rerun,  |
| 21   | all of our technical programs work.   | 21   | after he ran the report, he created a PDF file  |
| 22   | Q. Right. So so you might sit   | 22   | which you then used to produce to us prior to   |
| 23   | there and advise him at his computer station  | 23   | this deposition.  |
|  |   |  |   |
| 1  | Page 35   |  | Page 37   |
| 1  | Page 35 with regard to modifications or inputs into the   | 1  | A. Yes.   |
| 1 2  | 6   | 1 2  |   |
|  | with regard to modifications or inputs into the   |  | A. Yes.   |
| 2  | with regard to modifications or inputs into the software?   | 2  | A. Yes. Q. Correct?   |
| 2 3  | with regard to modifications or inputs into the software?  A. Sure.   | 2 3  | <ul><li>A. Yes.</li><li>Q. Correct?</li><li>A. Yes. And that's what that's</li></ul>  |
| 2<br>3<br>4<br>5   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to   | 2<br>3<br>4<br>5   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper   |
| 2<br>3<br>4<br>5   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the   | 2<br>3<br>4<br>5   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought  |
| 2<br>3<br>4<br>5   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted  | 2<br>3<br>4<br>5   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a  |
| 2<br>3<br>4<br>5<br>6<br>7   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?   | 2<br>3<br>4<br>5<br>6<br>7   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them  | 2<br>3<br>4<br>5<br>6<br>7<br>8  | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well.  Q. Right. Which did you do in   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different   |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well.  Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two   |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                     | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well. Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could work from. I mean, as I told you earlier, I mean, I would have had a working copy for me  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                     | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two different types of files. Correct? A. Yes.  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well.  Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could work from. I mean, as I told you earlier, I mean, I would have had a working copy for me that's just a working copy. If I want to edit a report, I'll print it out and I'll edit it and I'll get on the computer and make the  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two different types of files. Correct? A. Yes. Q. All right. And well, scratch that. That's enough. On the second page of what I have up on the screen bates labeled  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well. Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could work from. I mean, as I told you earlier, I mean, I would have had a working copy for me that's just a working copy. If I want to edit a report, I'll print it out and I'll edit it and I'll get on the computer and make the changes and then I'll throw the working copy                  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two different types of files. Correct? A. Yes. Q. All right. And well, scratch that. That's enough. On the second page of what I have up on the screen bates labeled 9349   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well. Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could work from. I mean, as I told you earlier, I mean, I would have had a working copy for me that's just a working copy. If I want to edit a report, I'll print it out and I'll edit it and I'll get on the computer and make the changes and then I'll throw the working copy away             | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two different types of files. Correct? A. Yes. Q. All right. And well, scratch that. That's enough. On the second page of what I have up on the screen bates labeled 9349 A. Yes, sir.                                |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | with regard to modifications or inputs into the software?  A. Sure. Q. Right. But then when you go to review the results, you're going to look at the results that have been generated and converted to a PDF file?  A. Well, I can I can look at them on his computer as well over his shoulder before he saves them as well.  Q. Right. Which did you do in preparing your October 2023 report?  A. I would have had something I could work from. I mean, as I told you earlier, I mean, I would have had a working copy for me that's just a working copy. If I want to edit a report, I'll print it out and I'll edit it and I'll get on the computer and make the changes and then I'll throw the working copy away  Q. Right. | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | A. Yes. Q. Correct? A. Yes. And that's what that's what I thought had been done in a proper fashion before the first deposition. I thought I was using I thought I had in the file a complete file of what was then printed because that's what I testified to. That's what was my understanding. But it wasn't it wasn't accurate. Q. The actual HVE files are different obviously from the PDF file that is just a a collection of the results. Those are two different types of files. Correct? A. Yes. Q. All right. And well, scratch that. That's enough. On the second page of what I have up on the screen bates labeled 9349 A. Yes, sir. Q second paragraph you say our |

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|    | Bryson, Santana and Joshu                      | ıa v | . Rough Country, LLC                            |
|----|--|------|---|
|    | Page 38  |      | Page 40   |
| 1  | unsuccessful because data used in that         | 1    | A. Well, no because we were still               |
| 2  | simulation was lost.                           | 2    | under the confusion that we could do that. In   |
| 3  | Did I read that correctly?                     | 3    | other words, we didn't basically if someone     |
| 4  | A. Yes.  | 4    | wanted to try to reproduce wanted to put the    |
| 5  | Q. And my question is, there were              | 5    | data we have in, I mean, they could do it and   |
| 6  | printouts and data from that were produced     | 6    | they'd get the same answer we'd get. But we     |
| 7  | to us that were believed to be from the        | 7    | didn't understand the problem fully. It took a  |
| 8  | original simulation. And so when you say the   | 8    | while to discover all of the problems. So no,   |
| 9  | data was lost, what do you mean by that?       | 9    | we weren't we didn't even know what problem     |
| 10 | A. Two fold. Potential answers and             | 10   | we were solving at that time.                   |
| 11 | then you can choose what's relevant to your    | 11   | Q. All right. Did you I know                    |
| 12 | question. I've already told you that the run   | 12   | you're saying the data that you used from the   |
| 13 | files were lost and and the whatever           | 13   | printouts you produced to us did not create the |
| 14 | files were used to generate the documents that | 14   | result that you expected. Was there any         |
| 15 | I used to do my initial report as far as the   | 15   | missing data or was it just you had all of the  |
| 16 | electronic copies were not present.            | 16   | data but it didn't it wasn't correct?           |
| 17 | The second thing is, in the reports that       | 17   | A. There's missing data as well. The            |
| 18 | were printed out, HVE does surrounding and     | 18   | reports remember, not all of the reports        |
| 19 | doesn't report all of the input data           | 19   | were printed. I told you that. There just       |
| 20 | necessarily. So so numbers can have            | 20   | there was missing data. And we couldn't we      |
| 21 | extended decimal places beyond what the report | 21   | realized we were going to have to start adding  |
| 22 | shows. So let's say a 0.8 might show up as a   | 22   | to those reports. And then we also knew that    |
| 23 | one because of rounding. Because of that       | 23   | the report numbers weren't precise. So you      |
|    | Page 39  |      | Page 41   |
| 1  | it's when we tried to use the data that was    | 1    | couldn't just input the report numbers. You     |
| 2  | shown, we just did not we knew that that       | 2    | wouldn't get a robust answer. I mean, you'd     |
| 3  | that was not accurate to what had been used    | 3    | probably get, you know, an approximate answer.  |
| 4  | because it didn't produce the right result. So | 4    | But we wanted the right answer, similar to what |
| 5  | the I think it's a 17.92 mile per hour         | 5    | was in my FR26 report.                          |
| 6  | delta-V for the F-250 wasn't working. So what  | 6    | Q. All right. So obviously if you're            |
| 7  | it means is the reported the reports are       | 7    | not able to reproduce the original simulation   |
| 0  | !  |      | 1 1 4 14 1 116                                  |

- 8 incomplete as far as to the level of detail
- that's needed sometimes to regenerate the --
- 10 the run.
- 11 So on two levels, we just could not -- we
- 12 could not use what we had to reproduce the
- simulation run. So we just -- like I said, it
- 14 took a couple of months to figure out that it
- wasn't going to work. And then we just said,
- 16 okay, let's just rerun with the input data that
- 17 we know is accurate, the weights, the
- 18 delta-V's, everything, and you know, just do it
- 19 the way that I said in the deposition. And
- 20 that's what we have today.
- 21 Q. When you first attempted to
- 22 reproduce the original simulation with the data
- 23 that you had, did you save that simulation run?

- 8 based upon the data you have, you wouldn't
- expect anyone else to be able to reproduce your
- 10 original simulation because the only data they
- 11 would have would be the same data that you had?
- 12 A. Well, they could use my deposition
- 13 and -- and the file materials that I had and
  - pluck the data out of my deposition and the
- 15 file materials and input it, and they would get
- 16 a very similar result to what we have, yes.
- 17 They could do it that way. But you could not
- use the reports, just like I couldn't use the
- 19 reports. Nobody could use those reports to get
- 20 it as accurate as it should be.
- 21 Q. How many simulations have you run
- 22 beyond the original simulation and the rerun
- 23 simulation?

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|---------------|---|----|---|--|--|
|               | Page 42   |    | Page 44   |  |  |
|               | 1 A. I don't I don't know.                        | 1  | other than what you've described that you       |  |  |
|               | Q. You haven't saved any other than               | 2  | haven't produced to Ms. Cannella that relate to |  |  |
|               | 3 the rerun simulation. Correct?                  | 3  | your work in this case?                         |  |  |
|               | 4 A. Now, there will be some of our               | 4  | A. Oh, they don't relate to my work             |  |  |
|               | 5 attempts are archived. In other words, some of  | 5  | in this case. They relate to my work to try to  |  |  |
|               | 6 the process that we used is archived. It's not  | 6  | find the file and try to try to use a file      |  |  |
|               | 7 relevant though to my final opinions if you     | 7  | that, you know, was corrupt. But no, there's    |  |  |
|               | 8 want to do a forensic examination of the        | 8  | nothing you have everything I'm using for my    |  |  |
|               | 9 process. You know, I mean, there's something    | 9  | opinions. You have everything that I have done  |  |  |
| 1             | 0 around you could use for that. But I'm here to  | 10 | in this simulation to try to well, to           |  |  |
| 1             | 1 give opinions about a particular accident. And  | 11 | reproduce the work and even, you know, slightly |  |  |
| 1             | 2 so I'm confident in what we have given you.     | 12 | improve the work, consistent with my            |  |  |
| 1             | 3 But yeah, some of that process is saved. But    | 13 | deposition. You have that.                      |  |  |
| 1             | 4 it's it was basically put aside because we      | 14 | Q. All right. When did you first                |  |  |
| 1             | 5 realized that we didn't have the files to do    | 15 | become aware of the date of Wes Grimes's        |  |  |
| 1             | 6 it. And then we just redid it per my            | 16 | deposition, your counterpart for the Defense?   |  |  |
| 1             | 7 deposition, per the data in the file, per the   | 17 | A. I knew of it. I'm guessing, but              |  |  |
| 1             | 8 right everything and and ran it.                | 18 | it's, you know, a few weeks at most before      |  |  |
| 1             | 9 Q. And those archived files related             | 19 | that.   |  |  |
| 2             | 0 to your other run simulations, they've not been | 20 | Q. Okay. So                                     |  |  |
| 2             | 1 produced to Ms. Cannella. Correct?              | 21 | A. His deposition date is not                   |  |  |
| 2             | A. No. Because they're not relevant               | 22 | particularly an issue for me.                   |  |  |
| 2             | 3 to my opinions.                                 | 23 | Q. Right. But I'm I'm curious                   |  |  |
|               | Page 43   |    | Page 45   |  |  |
|               | 1 Q. They relate to your work in this             | 1  | when were you told about his deposition date.   |  |  |
|               | 2 case though. Correct?                           | 2  | Do you recall?                                  |  |  |
|               | A. But not work to give my opinions               | 3  | A. I don't.                                     |  |  |
|               | 4 in the in what happened in the accident.        | 4  | Q. All right. Did you did you                   |  |  |
|               | 5 They only relate to us trying to find a missing | 5  | talk with Ms. Cannella and help her to prepare  |  |  |
|               | 6 file and missing data. So we worked really      | 6  | for that deposition?                            |  |  |
|               | 7 hard, but that was and that's that's just       | 7  | A. If anybody remembers when Wes                |  |  |
|               | 8 bonus that's a bad word to use. That's          | 8  | Grimes's materials were produced, that I'm      |  |  |
|               | 9 that's work that we did trying to fix a         | 9  | sure I looked at those and told her what we     |  |  |
|               | 0 problem.  | 10 | saw. And I remember one thing very              |  |  |
| 1             | •   | 11 | specifically. So yes, I did help her in some    |  |  |
|               | 2 do with my analysis of this accident. That      | 12 | way. Yes, I did.                                |  |  |
| 1             | ; · · · · · · ·                                   | 13 | Q. All right. And what was the                  |  |  |
| 1             | 1 2 2   | 14 | date the date that you ran the rerun            |  |  |
| 1             | •   | 15 | simulation, or at least when you finalized it?  |  |  |
| 1             | 9   | 16 | We know that you did some preliminary runs that |  |  |
| 1             |   | 17 | haven't been produced that weren't the final    |  |  |
| 1             | 6   | 18 | run that you're relying upon. But when did you  |  |  |
| 1             |   | 19 | produce the final simulation run that you've    |  |  |
| 2             | •   | 20 | produced to us and that you're relying upon in  |  |  |
| $\frac{1}{2}$ | 5 5   | 21 | this case?                                      |  |  |
| 2             | , , ,   | 22 | A. Yeah, I disagree with your                   |  |  |
| 1 2           | 2 Are there any other archived files              |    |   |  |  |

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23 characterization. But I understand the

Q. Are there any other archived files

23

|                | Dryson, Santana and Joshi   | v        | . Rough Country, LLC                            |
|----------------|---|----------|---|
|                | Page 46   |          | Page 48   |
| 1              | question. So when was it run? I don't know  | 1        | May 8, the same day as this. And you would      |
| 2              | off the top of my head. There may be a date on  | 2        | have needed this prior to preparing your        |
| 3              | it if I can find it here. This is the FR26.   | 3        | report, I believe is what you just said, in     |
| 4              | You've got it up right there. All you have to   | 4        | order to prepare the report?                    |
| 5              | do is look at the top and see if there's a  | 5        | A. Right. So I had some working copy            |
| 6              | date.   | 6        | printouts we would have used. And then we       |
| 7              | Q. I don't whether it's when it was   | 7        | would have tried to run and save and get        |
| 8              | printed or when it was run. But if you look at  | 8        | everything compiled to go with this for whoever |
| 9              | appendix B that I have up on the screen it's  | 9        | wanted it.                                      |
| 10             | not showing up for some reason. I don't know.   | 10       | Q. Now, you verified that others                |
| 11             | I want you to verify, it has a date on what you   | 11       | could not have used the original HVE data used  |
| 12             | produced as appendix B of May 8, 2024, 17:10.   | 12       | by in order to reproduce your simulation or     |
| 13             | Is that the date that you ran the simulation?   | 13       | to test your simulation?                        |
| 14             | A. That I don't know. It could  | 14       | A. I didn't hear a word you said I              |
| 15             | just be the simulation can be run on that   | 15       | missed a couple of your words, please, if you   |
| 16             | date to generate all of the reports and printed   | 16       | could help me.                                  |
| 17             | on that date. Yes, sir. I don't know if   | 17       | Q. All right. Sorry. Can you hear               |
| 18             | that's the exact date it was originally run.  | 18       | me now?   |
| 19             | But it was probably rerun on that date to make  | 19       | A. I can hear you. Just a couple of             |
| 20             | sure we had the right copies printed out so   | 20       | them were garbled.                              |
| 21             | that whatever adjustments or whatever inputs  | 21       | Q. Okay. I believe what you                     |
| 22             | had been refined for the report were accurate   | 22       | testified to is that in order for someone to    |
| 23             | to the report.  | 23       | attempt to simulate your original simulation or |
|                | Page 47   |          | Page 49   |
| 1              | Q. Is there a way to determine the  | 1        | to test it, they would have had to have ignored |
| 2              | date the report was actually run?   | 2        | the HVE data that you produced originally and   |
| 3              | A. I don't know. But I think it was   | 3        | have relied solely upon your deposition         |
| 4              | run on that date.   | 4        | testimony and disregarded the actual HVE data   |
| 5              | Q. All right. So you believe that at  | 5        | in order to try to reproduce your original      |
| 6              | least it was run for the purposes of producing  | 6        | simulation. Is that fair?                       |
| 7              | a PDF file to produce to us?  | 7        | MS. CANNELLA: Object to the form                |
| 8              | A. That's my belief. But that's   | 8        | of the question. Misstates his testimony.       |
| 9              | my belief, yes. But I'm just giving you the   | 9        | Q. Well, you can correct me if it's             |
| 10             | best answer I can.  | 10       | wrong.  |
| 11             | Q. Right. But it could have been run  | 11       | A. I didn't feel like that was fair.            |
| 12             | any time before that date, original?  | 12       | No, sir. I                                      |
| 13             | A. Well, not any time. Approximate  | 13       | Q. Well, what's the answer to the               |
| 14             | of that, yes. I understood that I needed to   | 14       | question?                                       |
| 15             | write a report. And we were what was the  | 15       | A. You asked me was it fair.                    |
| 16             | report was about this simulation. And the   | 16       | Q. No. No. I didn't ask you I                   |
| 17             | simulation was run proximally doing the report.   | 17       | asked you to answer the question if you can.    |
| 18             | I would have done the report at the time we   | 18       | MS. CANNELLA: The question was,                 |
| 10             |   | I        | _   |
| 19             | were finishing the simulation, yes. But it's  | 19       | is that fair, I think is what Mr. Buchner's     |
| 1              | were finishing the simulation, yes. But it's proximal to that. It takes a while to write a  | 19<br>20 | saying.   |
| 19             | were finishing the simulation, yes. But it's proximal to that. It takes a while to write a report though, so you know, it could have been |          |   |
| 19<br>20       | proximal to that. It takes a while to write a   | 20       | saying.   |
| 19<br>20<br>21 | proximal to that. It takes a while to write a report though, so you know, it could have been  | 20<br>21 | saying.  Q. Is that a fair characterization of  |

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|    | Diyson, Santana and Josh                        | ıa v | . Rough Country, LLC                            |
|----|---|------|---|
|    | Page 50   |      | Page 52   |
| 1  | Q. I'll re-ask it.                              | 1    | A. No. The all of the data was                  |
| 2  | A. Yeah.  | 2    | already in my deposition and in my files.       |
| 3  | Q. So we've already agreed that                 | 3    | There really isn't anything I did exactly       |
| 4  | another expert could not use your HVE data that | 4    | what I said in the in the amended, I did        |
| 5  | you produced to re-create or test your original | 5    | what I said I had done or would do in my        |
| 6  | simulation?                                     | 6    | deposition to run a simulation. So we followed  |
| 7  | A. No, we have not.                             | 7    | what I said in my deposition as as the way,     |
| 8  | Q. Okay. But then you alluded to,               | 8    | you know, that we wanted to do the work. And    |
| 9  | well, they could have read my deposition and    | 9    | then we followed that script to produce this.   |
| 10 | ignored the HVE data and just listened to what  | 10   | We did make as I already said, there was        |
| 11 | I said in the deposition and they could have    | 11   | a 0.04 inches or something tire diameter        |
| 12 | reproduced it or tested it that way?            | 12   | discrepancy or maybe 0.45 inches that we did    |
| 13 | A. I'm sorry, sir. The answer to the            | 13   | correct.  |
| 14 | previous question was no, we have not agreed to | 14   | Q. Well, we'll talk about your                  |
| 15 | that. You could                                 | 15   | changes to in your amended simulation in a      |
| 16 | Q. Okay.  | 16   | minute. With regard to your original HVE        |
| 17 | A. Yeah. You could do a reasonable              | 17   | simulation, what version of the HVE software    |
| 18 | rerun of the data we gave and understand you're | 18   | did you use? Do you know?                       |
| 19 | going to get a very similar answer to what we   | 19   | A. Yeah. 17, I believe. Let me look             |
| 20 | got. But they're not going to be as accurate    | 20   | and see. I don't I don't have the original      |
| 21 | as they need to be so that what's in my report  | 21   | report. Let me see if I can find that. Yeah.    |
| 22 | would be precisely produced. But you could ge   | t 22 | 17 on both of them.                             |
| 23 | a very similar answer. If you wanted to do it   | 23   | Q. And when you say both of them, you           |
|    | Page 51   |      | Page 53   |
| 1  | as precise as I would like to have it done, you | 1    | mean the rerun report, which is reflected in    |
| 2  | would want to read the deposition and use what  | 2    | your the May 8 printout of 2024?                |
| 3  | I said in the deposition, yes.                  | 3    | A. Right.                                       |
| 4  | We'd like to be accurate. We'd like to have     | 4    | Q. Okay. You don't know when that               |
| 5  | the right amount of detail. But someone could   | 5    | was run, but you know it was it was run         |
| 6  | put in the data we have and they would they     | 6    | using the 17.00 version of the software?        |
| 7  | would get a reasonable result of what we got.   | 7    | A. Right. Because it says that at               |
| 8  | It just wouldn't be the same results that were  | 8    | the top.  |
| 9  | in my FR26 report. But they would be close.     | 9    | Q. Right. And it says 2021. Is that             |
| 10 | So as I said earlier, to do what we did, anyone | 10   | the year that that version came out?            |
| 11 | else who wanted to do it would have to to       | 11   | A. Yes.   |
| 12 | get it as accurate as we would like for it to   | 12   | Q. Okay. And do you know whether                |
| 13 | be, not just accurate enough to understand the  | 13   | there's been any updates or new versions to the |
| 14 | work, but accurate so that my FR26 report in my | 14   | HVE software since?                             |
| 15 | deposition was accurate, you'd need to use      | 15   | A. Yes. Yeah. There was there                   |
| 16 | use what I said I did in my deposition and the  | 16   | have been updates. We actually have a more      |
| 17 | supporting data.                                | 17   | current version. We're trying to stick with     |
| 18 | Q. All right. And you would need the            | 18   | the version when we started working on the file |
| 19 | supporting data that you produced with your     | 19   | that we had opened. So we it can be rerun       |
| 20 | FR26 amended report                             | 20   | on a new version if somebody wants to.          |
| 21 | A. No.  | 21   | Q. All right. So you actually                   |
| 22 | Q to get it as accurately as you                | 22   | possess a more current version than version     |
| 23 | wanted to do it?                                | 23   | 17.00?  |
| 22 | Q to get it as accurately as you                | 22   | possess a more current version than version     |

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|----|---|--|---|--|--|
|    | <u> </u>  | Ja v                                   |   |  |  |
| 1  | Page 54<br>A. Yes. Our  | 1                                      | Page 56 the most current version of the software that |  |  |
|    |   | $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ |   |  |  |
| 2  | Q. What is the sorry.   |  | you possess?  |  |  |
| 3  | A. We we get subscription updates   | 3                                      | A. Probably because we were trying to                 |  |  |
| 4  | from HVE, yes. We have a more current version.                                      |  | reproduce the prior work. And that was the            |  |  |
| 5  | Q. What's the most current version  | 5                                      | version we we had up and were using. If               |  |  |
| 6  | that you have now? Do you know?   | 6                                      | someone wants to do it on a later version, I'm        |  |  |
| 7  | A. I don't know the number on it.   | 7                                      | happy to go do it. But I don't it's not               |  |  |
| 8  | No, sir.  | 8                                      | going to change any of the answers any of             |  |  |
| 9  | Q. All right. When you ran the  | 9                                      | the opinions because there haven't been any           |  |  |
| 10 | original simulation, do you know the date that                                      | 10                                     | but that was we were just trying to be                |  |  |
| 11 | it was run?   | 11                                     | consistent.   |  |  |
| 12 | A. On or about October 12, a little   | 12                                     | We always try to be consistent when we start          |  |  |
| 13 | bit before.   | 13                                     | a project because when you adjust the versions,       |  |  |
| 14 | Q. Of 2023. Correct?  | 14                                     | some program may adjust some of your data. And        |  |  |
| 15 | A. Yes.   | 15                                     | that can cause some issues. So it's just an           |  |  |
| 16 | Q. And do you know whether at that  | 16                                     | engineering habit we have, and we stayed with         |  |  |
| 17 | time the most current version of HVE was  | 17                                     | it.   |  |  |
| 18 | version 17.00?  | 18                                     | Q. Wouldn't the most current version                  |  |  |
| 19 | A. It was not. We had started on  | 19                                     | of the software have included improvements in         |  |  |
| 20 | version 17. We we got an update. As I went  | 20                                     | the software that would give you the most             |  |  |
| 21 | back and figured out through this process, we                                       | 21                                     | reliable result?                                      |  |  |
| 22 | had a more current version. But we had started                                      | 22                                     | A. Well, that's wishful thinking. We                  |  |  |
| 23 | the process with 17, and we we kept it on 17  | 23                                     | don't know. It's not not necessarily known.           |  |  |
|    | Page 55   |  | Page 57   |  |  |
| 1  | just for consistency. But yeah, we did have a                                       | 1                                      | If the program wasn't good enough in version          |  |  |
| 2  | more current version at the time. I think I   | 2                                      | 17, they would have let us know that version          |  |  |
| 3  | misspoke in my depo on that.  | 3                                      | 17, don't use it. But and you don't even              |  |  |
| 4  | Q. You misspoke in your prior   | 4                                      | know it's got so many manuals, you don't              |  |  |
| 5  | deposition about that. Is that what you said?                                       | 5                                      | know what the changes were. I'm don't I'm             |  |  |
| 6  | A. Yes.   | 6                                      | not I can't agree with that as we sit here.           |  |  |
| 7  | Q. All right. And so when you say   | 7                                      | No, sir.  |  |  |

- 8 you started the process, what do you mean by
- 9 that?
- 10 A. Well, it takes a while to do a
- 11 simulation. So whatever -- when we -- when
- 12 the -- when the work was started, 17 was open.
- 13 Whether -- why it was open, I don't know. But
- 14 that was the one that we started the process
- 15 with. And once we start a version, we tend to
- 16 stay with that version. And that's what
- 17 happened here.
- It doesn't mean that there weren't more 18
- 19 available versions. But that one -- that was
- 20 the one that was used. And so we just stayed
- consistent with it. So we're consistent with 21
- 22 it to this day.
- 23 Why would you not run the rerun on

- Q. Well, do you -- when you say --
- 9 when did the process start prior to October of
- 10 2023? You say it takes a long time. How long?
- 11 How long were you working on this before you
- 12 created the simulation -- the original
- 13 simulation?
- 14 A. I don't know. I don't know. And
- 15 I don't know that version 17 was the most
- 16 updated one when we started. But once we
- 17 start, we stay with it.
- 18 Q. Well, you said you had to start
- 19 the rerun from scratch basically because the
- 20 old data was not the correct data. Right?
- 21 A. Right. We -- right. We basically
- 22 had to reenter it. Yes, sir.
  - All right. And you didn't start

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23

|    | Bryson, Santana and Joshi                       | aa v | . Rough Country, LLC                           |
|----|---|------|--|
|    | Page 58   |      | Page 60  |
| 1  | that rerun process for, you said months after   | 1    | would be using the latest version because we   |
| 2  | your deposition?                                | 2    | we have the latest version.                    |
| 3  | A. Yes.   | 3    | Q. Well, that was my question. That            |
| 4  | Q. All right. So your deposition was            | 4    | was exactly my question. If you opened a       |
| 5  | at the end of January. So you have February     | 5    | case a new case today, what version of HVE     |
| 6  | and March. As best you can recall, you haven't  | 6    | would you use?                                 |
| 7  | discovered the problem with the original        | 7    | A. Well, we'd probably use whatever            |
| 8  | simulation. And then sometime after those two   | 8    | version was opening at that time on that       |
| 9  | months between then and May 8, you run the      | 9    | computer. I would anticipate we would use the  |
| 10 | rerun. Correct?                                 | 10   | latest version, just like I said in my         |
| 11 | A. Similar, yes, sir.                           | 11   | deposition.                                    |
| 12 | Q. And you run it from scratch?                 | 12   | Q. All right.                                  |
| 13 | A. Yes.   | 13   | A. But if if the file was already              |
| 14 | Q. All right. So that's a month to              | 14   | functioning, we would you know, we'd make a    |
| 15 | six weeks worth of time to run a simulation     | 15   | decision based on the situation of the file.   |
| 16 | from scratch. Correct?                          | 16   | But I was I was trying to stay with what we    |
| 17 | A. I can't agree on the dates. I've             | 17   | had originally done to be as consistent as     |
| 18 | already told you that. But yeah, there was      | 18   | possible with what we had originally done. I   |
| 19 | time to run it from scratch.                    | 19   | understand you want to argue there's a         |
| 20 | Q. All right. And are you aware that            | 20   | different idea.                                |
| 21 | between August of 2021 when version 17 came out | 21   | I don't have any problem with it. Somebody     |
| 22 | and February of 2023, which was seven months    | 22   | can take our data and rerun it on version      |
| 23 | prior to your original simulation, there had    | 23   | whatever they want. 12 if they want.           |
|    | Page 59   |      | Page 61  |
| 1  | been three new versions of HVE had come out?    | 1    | Q. All right.                                  |
| 2  | A. I don't know the number. No, sir.            | 2    | MR. HILL: We've been going a                   |
| 3  | Q. All right. You can't dispute that            | 3    | little over an hour. Want to take a I need     |
| 4  | though?   | 4    | a restroom break. And please let me know if    |
| 5  | A. I'm not trying to dispute it. No,            | 5    | you need a break obviously.                    |
| 6  | sir.  | 6    | THE WITNESS: Yeah.                             |
| 7  | Q. All right. And since February of             | 7    | MR. HILL: This would be a good                 |
| 8  | 2023 up until the time of your running of the   | 8    | time.  |
| 9  | rerun, there is an additional version of HVE    | 9    | THE VIDEOGRAPHER: The time the                 |
| 10 | that's come out. Were you aware of that?        | 10   | time is 11:13 a.m. We're off the video record. |
| 11 | A. Well, I know we have I know                  | 11   | (A break was taken.)                           |
| 12 | there I know there is a version that we         | 12   | THE VIDEOGRAPHER: The time is                  |
| 13 | could have used as the new version, yes. I      | 13   | 11:28 a.m. We're back on the video record.     |
| 14 | don't know the dates of all the versions. No,   | 14   | MR. HILL: Thanks.                              |
| 15 | sir.  | 15   | Q. (Mr. Hill) Hold on. I'm having an           |
| 16 | Q. All right. When you start a case             | 16   | issue sharing my screen.                       |
| 17 | from scratch now that you want to use HVE,      | 17   | A. I can see your screen. Yes, sir.            |
| 18 | which which version do you use?                 | 18   | Q. Okay. Great. All right. Up on               |
| 19 | A. 17.  | 19   | the screen is that FR26 amended report. And I  |
| 20 | Q. So you're still using 17 for all             | 20   | want to move now to the sections where you     |
| 21 | your cases even though you possess a more       | 21   | discuss the comparison between the initial     |
| 22 | current version of HVE?                         | 22   | simulation and the rerun simulation. And as I  |
| 23 | A. No. If we opened a case today, we            | 23   | understand your report, with the rerun you     |

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|----|--|-----------|---|--|--|
|    | Bryson, Santana and Joshi  | ıa v<br>□ | . Rough Country, LLC                            |  |  |
|    | Page 62  |           | Page 64   |  |  |
| 1  | were you used for the F-250, the default   | 1         | stronger and stiffer.                           |  |  |
| 2  | properties for for stiffness coefficients  | 2         | So you know, that would be to the Escape's      |  |  |
| 3  | that were within the software, the   | 3         | disadvantage. We hit it the a stronger truck    |  |  |
| 4  | Vehiclemetrics database. Is that correct?  | 4         | in the rerun I mean a stronger simulated        |  |  |
| 5  | A. Yes.  | 5         | truck.  |  |  |
| 6  | Q. And is the Vehiclemetrics database  | 6         | So that's that's I thought that would           |  |  |
| 7  | part of the HVE software?  | 7         | be most consistent with my deposition and the   |  |  |
| 8  | A. No. Vehiclemetrics is an approved   | 8         | most consistent with my intent, especially      |  |  |
| 9  | vendor to do things like make vehicles for the                                   | 9         | because we had done the calculations of crush   |  |  |
| 10 | HVE software.  | 10        | originally with the hand calculations or the    |  |  |
| 11 | Q. How is the different from the   | 11        | computer calculations with with Neptune's       |  |  |
| 12 | Neptune data that you used with the original                                     | 12        | data. Now we were going to use the pure         |  |  |
| 13 | simulation?  | 13        | simulation data or as pure as we could get.     |  |  |
| 14 | A. You mean for crush stiffness?   | 14        | Q. And why didn't you follow that               |  |  |
| 15 | Q. No. I don't mean the actual. How  | 15        | same process with the original simulation?      |  |  |
| 16 | is using Vehiclemetrics in other words, you                                      | 16        | A. Because I asked if we had crush              |  |  |
| 17 | just said it was approved by HVE for use as a                                    | 17        | stiffness coefficients for the Crew Cab. And    |  |  |
| 18 | method for determining the stiffness   | 18        | the answer was no. And I didn't realize when    |  |  |
| 19 | coefficients. Is is Neptune not approved?  | 19        | Vehiclemetrics provided a vehicle, they they    |  |  |
| 20 | I'm trying to understand that. I thought   | 20        | provided stiffness coefficients as well, the    |  |  |
| 21 | Vehiclemetrics was contained within the HVE                                      | 21        | numbers side.                                   |  |  |
| 22 | software.  | 22        | So in the rerun when we were making sure to     |  |  |
| 23 | A. Okay. HVE has vehicles that come  | 23        | do things per my deposition, we went through it |  |  |
|    | Page 63  |           | Page 65   |  |  |
| 1  | in it.   | 1         | and said, okay, I would use defaults if they    |  |  |
| 2  | Q. Right.  | 2         | were there. This vehicle has defaults. We're    |  |  |
| 3  | A. HVE had an F-250, but it was not  | 3         | going to use those because that's what I said   |  |  |
| 4  | the Crew Cab. It was an Extended Cab, I  | 4         | we would do.                                    |  |  |
| 5  | believe. So it's essentially the same vehicle,                                   | 5         | Q. So were you told by Jacob or                 |  |  |
| 6  | but a little bit the weight is going to be a                                     | 6         | whoever was running the test the first time     |  |  |
| 7  | little bit different. The length will be a                                       | 7         | that there was there were no default values     |  |  |
| 8  | little bit different. And we wanted a  | 8         | for an F-250 in the HVE system?                 |  |  |

9 Crew Cab.

10 So Vehiclemetrics is a vendor for HVE that

11 we contracted with to make us the right shape

12 Crew Cab from our scans. We gave them the

13 scan, and they made the right shape Crew Cab.

14 And -- and with that vehicle from them came

15 crush stiffness coefficients.

16 Their crush stiffness coefficients were

17 higher than Neptune's. I think Neptune's were

18 reasonable. Vehiclemetrics, because they

19 provided some -- I didn't realize they had --

20 that's closer to using the defaults of HVE than

21 Neptune. So I -- in the update we used them.

22 And to be clear, they're higher crush stiffness

23 coefficients. So the F-250 in the rerun was

A. To an extent, yes. I asked for

10 the Crew Cab, and he said no. So I didn't

11 think there were. I didn't ask for Vehicle --

12 Vehiclemetrics to ultimately provide it. I

13 asked the question -- I think I got the

14 question -- the correct answer to my question.

15 I think I just misunderstood that it applied --

16 that it only applied to -- the HVE has we

17 opened it, it didn't have them.

18 I don't think that I asked the question did

19 it come with Vehiclemetrics. So just a

20 communication error.

Q. All right. So back when you ran

22 the original simulation, you could have

23 followed the process that you followed with the

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|---------------|--|------|---|
|               | Page 66  |      | Page 68   |
| 1             | rerun? There's nothing new about that. It's        | 1    | and pointed it out. So it was in the data that  |
| 2             | just you didn't recognize that that was a          | 2    | we provided. I don't know where it is in        |
| 3             | possibility when you did the original run?         | 3    | the in the data as we sit here. My memory       |
| 4             | A. Right. Right.                                   | 4    | doesn't go back that far. But the so it's       |
| 5             | Q. Vehiclemetrics and the process you              | 5    | in the data we provided, whether it's in one of |
| 6             | followed was available back in October of 2023?    | 6    | the reports or printouts.                       |
| 7             | A. Yes. Yes. And we had it. We had                 | 7    | Q. But we've we've already                      |
| 8             | the vehicle. We had it in there. We just           | 8    | established that the data you provided, you     |
| 9             | didn't use the AV values that came with the        | 9    | can't verify whether it correlates to your      |
| 10            | truck because I mistakenly didn't think they'd     | 10   | simulation original simulation or not.          |
| 11            | come with some.                                    | 11   | A. You could be right on that. The              |
| 12            | Q. All right. It appears another                   | 12   | one that the one that I wrote the report on     |
| 13            | change that was made is to the tire sizes on       | 13   | may have actually had the right size in it.     |
| 14            | the F-250. Explain the change you made between     | 14   | But in the in what we provided, it looked       |
| 15            | the original run and the amended run with          | 15   | wrong. So we made sure it was right in the      |
| 16            | regard to the tire sizes on the F-250.             | 16   | rerun.  |
| 17            | A. Sure. We have the tire sizes                    | 17   | Whether or not the data we provided was         |
| 18            | right in the file as a whole. But when we ran      | 18   | actually about the simulation that I used to    |
| 19            | the simulation, the tire size I don't see          | 19   | right the report or not, well, that's a great   |
| 20            | the paragraph in there. Can you do you have        | 20   | point you made. But whatever data we had        |
| 21            | it?  | 21   | available, it looked like the tire size was     |
| 22            | Q. It's  | 22   | wrong. So we made sure we got the tire size     |
| 23            | A. Oh, yeah. Yeah. So there was a                  | 23   | right in the rerun because that was our whole   |
| 23            |  |      |   |
| 1             | Page 67 point a 0.35 inches difference in the tire | 1    | Page 69 intent. We just wanted to get it right. |
| $\frac{1}{2}$ | size that 0.7 in the diameter and 0.35             | 2    | Q. Hold on one second. Just real                |
| 3             | inches in the in the radius. So we were off        | 3    | quickly while we're talking about HVE data      |
|               | by, you know, a third of an inch in height.        | 4    | reports, have you seen a screen like what's up  |
| 5             | And I think that was corrected. In fact, I         | 5    | there now from HVE?                             |
|               | know it was corrected.                             | 6    | A. I I can't read it. It's small.               |
|               |  | ~    |   |
| 7             | Q. And that's not based on any new                 | 7    | Q. All right. This is a graphical               |
|               | information. Right? I mean, the tire size on       | 8    | representation of crush from an HVE run. Have   |
| 9             | the subject F-250 was known at the time you ran    | 9    | you   |
| 10            | your original simulation?                          | 10   | A. No. We we only see a list of                 |
| 11            | A. Right. We we had done it we                     | 11   | files. At least I only see a list of files.     |
| 12            | used the right tire size throughout most of the    | 12   | Q. So you've never seen a                       |
| 13            | file, but just in inputting the data in the        | 13   | depiction                                       |
| 14            | simulation, it didn't we didn't catch that         | 14   | MS. CANNELLA: Rick, we see your                 |
| 15            | we should change the size of the tire by           | 15   | e-mail, I think.                                |
| 16            | that you know, by that much.                       | 16   | MR. HILL: You see my e-mail?                    |
| 17            | Q. If you don't know what original                 | 17   | MS. CANNELLA: Yeah.                             |
| 18            | data was used for the original simulation          | 18   | MR. HILL: I think I shared the                  |
| 19            | because you don't have it anymore, how do          | 19   | wrong screen.                                   |
| 20            | how do you know what was or wasn't used with       | 20   | MS. CANNELLA: Yeah.                             |
| 21            | the original simulation?                           | 21   | A. I couldn't read it, so there's,              |
| 22            | A. Well, I don't remember where it                 | 22   | you know, no harm no foul.                      |
| 122           | is. But Mr. Grimes is the one that located it      | 23   | Q. There's nothing in there important           |

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| ,                          | Page 70   |                            | Page 72   |
|----------------------------|---|----------------------------|---|
| 1                          | anyways. All right. How about now?  | 1                          | MS. CANNELLA: for Defense?  |
| 2                          | A. Yes.   | 2                          | MR. HILL: No. That's just a   |
| 3                          | Q. All right. So have you seen this   | 3                          | random simulation showing a type of data. And   |
| 4                          | type of output from an HVE simulation?  | 4                          | certainly if I want to just get a sample of   |
| 5                          | A. I don't know if I've seen it   | 5                          | what HVE outputs are like, I can do that.   |
| 6                          | exactly like that. But I've seen something  | 6                          | That's all that is. It's a representation   |
| 7                          | similar.  | 7                          | sample of the type of data HVE can put out.   |
| 8                          | Q. All right. And did you create  | 8                          | MS. CANNELLA: Okay. Well, we  |
| 9                          | anything like this based upon your rerun  | 9                          | want to get whatever communication that came  |
| 10                         | simulation?   | 10                         | from and whatever file that came from as well.  |
| 11                         | A. No. Yeah, we have the image of   | 11                         | MR. HILL: Sure. All right.  |
| 12                         | the vehicle. And we also have the crush. But  | 12                         | Q. (Mr. Hill) You produced what's on  |
| 13                         | it's not compiled like that, no. But we   | 13                         | the screen now as 9376. It's a graphical  |
| 14                         | have we have the same information in  | 14                         | representation of the crush on the Escape in  |
| 15                         | in compartmentalized though.  | 15                         | your rerun simulation. Is that what's depicted  |
| 16                         | MS. CANNELLA: One moment. Wha   | t 16                       |   |
| 17                         | are we looking at right now? Is this from our   | 17                         | A. That's part of it, yes.  |
| 18                         | wreck?  | 18                         | Q. Okay. And was that generated by  |
| 19                         | MR. HILL: No. This is a   | 19                         | HVE or was that generated by you using the HVE  |
| 20                         | representative of of an HVE output, a form  | 20                         | data?   |
| 21                         | of HVE showing the data from a simulation. So   |                            | A. That's HVE.  |
| 22                         | I'm just asking him generically has he seen   | 22                         | Q. Okay. So HVE creates this  |
| 23                         |   | 23                         | A. Yes.   |
|                            | · · · · · · · · · · · · · · · · · · ·   |                            |   |
| 1                          | Page 71 he's run.   | 1                          | Page 73 Q from the simulation?  |
| 2                          | MS. CANNELLA: This is we  | 2                          | A. Yes.   |
| 3                          | haven't produced this. No simulation has been   | 3                          | Q. Okay. And are you aware of   |
| 4                          | produced to us of our wreck. This is our Ford   | 4                          | whether it can create any other graphical   |
| 5                          | Escape with a similar crush profile. So why   | 5                          | depictions of crush from a simulation?  |
|                            | haven't we seen this before?  | 6                          | A. Well, you can rotate it and look   |
| 7                          |   | 7                          | •   |
| '                          | MR. HILL: This is just a sample.  | '                          | at it in different ways, yes. That was we   |
| 8                          | This is not this is a sample HVE output from  | 8                          | wanted a representative one. If somebody wants  |
| 9                          | just a random run. I'm just asking if he's  | 9                          | more, I guess they can rerun it and do it. But  |
| 10                         | seen this type of presentation. That's it.  | 10                         | this is we wanted an output so you could see  |
| 11                         | MS. CANNELLA: But this is no,   | 11                         | what the car looked like. And the best way to   |
| 12                         | this is this is our crash. This is our  | 12                         | do it is this.  |
| 13                         | crash right here.   | 13                         | Q. Right. All right. Do you choose  |
| 14                         | MR. HILL: Right. This is just a   | 14                         | like what, like, HVE is going to what side  |
| 15                         | sample. This is not our crash. I can  | 15                         | it's going to show or how it's going to display   |
| 16                         | _   |                            |   |
| 10                         | represent that to you. It's not our crash.  | 16                         | this? I mean, is there other options? How   |
| 17                         | represent that to you. It's not our crash.  It's nothing it is nothing. It's just a   | 16<br>17                   | this? I mean, is there other options? How does it work?   |
|                            | represent that to you. It's not our crash.  |                            | •   |
| 17                         | represent that to you. It's not our crash.  It's nothing it is nothing. It's just a   | 17                         | does it work?   |
| 17<br>18                   | represent that to you. It's not our crash. It's nothing it is nothing. It's just a sample. I'm just saying if he's ever had a   | 17<br>18                   | does it work?  A. I think you can rotate it and   |
| 17<br>18<br>19             | represent that to you. It's not our crash.  It's nothing it is nothing. It's just a sample. I'm just saying if he's ever had a representation or seen this type of  | 17<br>18<br>19             | does it work?  A. I think you can rotate it and choose the image you want, yes. So this is  |
| 17<br>18<br>19<br>20       | represent that to you. It's not our crash.  It's nothing it is nothing. It's just a sample. I'm just saying if he's ever had a representation or seen this type of information. Because if you look at                                    | 17<br>18<br>19<br>20       | does it work?  A. I think you can rotate it and choose the image you want, yes. So this is this is I like a perspective, a 3D                                     |
| 17<br>18<br>19<br>20<br>21 | represent that to you. It's not our crash.  It's nothing it is nothing. It's just a sample. I'm just saying if he's ever had a representation or seen this type of information. Because if you look at  MS. CANNELLA: Has somebody done a | 17<br>18<br>19<br>20<br>21 | does it work?  A. I think you can rotate it and choose the image you want, yes. So this is this is I like a perspective, a 3D perspective so you can see it. It's |

19 (Pages 70 - 73)

|                            | Diyson, Santana and Josh   |                            | . 1100811 0001101); 220  |
|----------------------------|--|----------------------------|--|
|                            | Page 74  |                            | Page 76  |
| 1                          | chose, yes.  | 1                          | So we've had that since, you know, October of  |
| 2                          | Q. Right. All right. The documents   | 2                          | last year, and that's what we used.  |
| 3                          | in appendix B, do they contain all of the HVE  | 3                          | Q. I'm saying you used the Neptune   |
| 4                          | files that were generated when you ran the   | 4                          | data in the original simulation. So was it for   |
| 5                          | rerun simulation?  | 5                          | a Crew Cab or a cab body style?  |
| 6                          | A. They were they're the reports   | 6                          | A. I'd have to look and see. I   |
| 7                          | that HVE provided for the rerun simulation.  | 7                          | didn't understand that that's what you were  |
| 8                          | The file is a this is a PDF. The file is an  | 8                          | asking about. We have that in the  |
| 9                          | electronic copy of the file that was provided  | 9                          | calculations. We have the printout right here  |
| 10                         | with the report.   | 10                         | if I can take a minute to find it.   |
| 11                         | Q. Right. So this is a printout of   | 11                         | All right. It's a Super Crew four-door. So   |
| 12                         | the PDF of the results from the test, the  | 12                         | we had a Crew the Neptune data that was  |
| 13                         | reports?   | 13                         | used in our crush calculations because we've   |
| 14                         | A. Yes.  | 14                         | done two things, crush calculations and a crush  |
| 15                         | Q. And you have the electronic files   | 15                         | simulation. The crush calculations were a  |
| 16                         | used to generate this these reports?   | 16                         | Super Duty Crew. And the original one was the  |
| 17                         | A. Yes. It was provided with the   | 17                         | Super Duty Crew with Neptune.  |
| 18                         | report.  | 18                         | Q. Okay. And we have a Super Duty  |
| 19                         | Q. Okay. All right. Going back to  | 19                         | Crew in the accident?  |
| 20                         | the vehicles used in the simulation, you talk  | 20                         | A. Yes.  |
| 21                         | about the F-250 that was in the volume   | 21                         | Q. Yeah. Okay. All right. On this  |
| 22                         | metrics the Vehiclemetrics database was a  | 22                         | page I have up here, you're talking about the  |
| 23                         | regular cab body style. Our subject truck was  | 23                         | bumper height that you used for the F-250 in   |
|                            | Page 75  |                            | Page 77  |
| 1                          | a Crew Cab. And so you used a modeling partner   | 1                          | the rerun simulation. And I believe you agree  |
| 2                          | to convert to a Crew Cab. Is that a  | 2                          | that it was 29 inches and that that was  |
| 3                          | layperson's way to describe that?  | 3                          | verified through measuring both the exemplar   |
| 4                          | A. Yes. The modeling partner we used   | 4                          | truck that you had and the measurement of the  |
| 5                          | was Vehiclemetrics. It's a typo and it says  | 5                          | crash test F-250 used in the Defense crash   |
| 6                          | Baker Sneddon. That was that was it was  | 6                          | testing and that they were all consistent. Is  |
| 7                          | Vehiclemetrics. Everything came from   | 7                          | that correct?  |
| 8                          | Vehiclemetrics in the first part of this   | 8                          | A. Reasonably. They're never   |
| 9                          | section. I don't know why it was typed   | 9                          | perfect. But yeah, they're all approximately   |
| 10                         | Baker Sneddon. That's a mistake.   | 10                         | 29 inches.   |
| 11                         | Q. That was my question. I didn't  | 11                         | Q. Okay. So you don't have any issue   |
| 12                         | understand what that so that sentence  | 12                         | with the height of the crash test F-250 as   |
| 13                         | shouldn't be in this?  | 13                         | tested?  |
| 14                         | A. The sentence should be. But the   | 14                         | A. No.   |
|                            |  | 15                         | Q. Okay. The vehicle you used in the   |
| 15                         | modeling partner should be Vehiclemetrics.   | 15                         | Q. Okay. The vehicle you used in the   |
| 15<br>16                   | modeling partner should be Vehiclemetrics.  Q. All right. Gotcha. And when you   | 16                         | rerun simulation for the Escape, it doesn't  |
|                            |  |                            |  |
| 16                         | Q. All right. Gotcha. And when you   | 16                         | rerun simulation for the Escape, it doesn't  |
| 16<br>17                   | Q. All right. Gotcha. And when you did the original simulation, was there a  | 16<br>17                   | rerun simulation for the Escape, it doesn't appear like you made any changes to that in  |
| 16<br>17<br>18             | Q. All right. Gotcha. And when you did the original simulation, was there a transfer from I mean, how did you account  | 16<br>17<br>18             | rerun simulation for the Escape, it doesn't appear like you made any changes to that in comparison to your original run. Is that                       |
| 16<br>17<br>18<br>19       | Q. All right. Gotcha. And when you did the original simulation, was there a transfer from I mean, how did you account for it being a Crew Cab in the actual accident?                                | 16<br>17<br>18<br>19       | rerun simulation for the Escape, it doesn't appear like you made any changes to that in comparison to your original run. Is that correct?              |
| 16<br>17<br>18<br>19<br>20 | Q. All right. Gotcha. And when you did the original simulation, was there a transfer from I mean, how did you account for it being a Crew Cab in the actual accident?  A. Well, the original we used | 16<br>17<br>18<br>19<br>20 | rerun simulation for the Escape, it doesn't appear like you made any changes to that in comparison to your original run. Is that correct?  A. Correct. |

20 (Pages 74 - 77)

|    | Dryson, Santana and Josh                           | ıa v |   |
|----|--|------|---|
|    | Page 78  |      | Page 80   |
| 1  | You used a different default coefficient           | 1    | normally just redistribute the weight ratios,   |
| 2  | stiffness because you used the Vehiclemetrics      | 2    |   |
| 3  | instead of Neptune. Right?                         | 3    | Q. Okay. In this case did you                   |
| 4  | A. Yes.  | 4    | redistribute the weight ratios?                 |
| 5  | Q. You changed the tire sizes to                   | 5    | A. No, we did not. We just added the            |
| 6  | mirror the subject F-250. For the Escape you       | 6    | weights to the vehicle at the CG.               |
| 7  | didn't make any changes compared to the            | 7    | Q. All right. So there was no                   |
| 8  | original run?                                      | 8    | factoring in the specific location of the items |
| 9  | A. Correct.  | 9    | in the truck; it was you didn't use that as     |
| 10 | Q. All right. And so the only real                 | 10   | part of your rerun simulation?                  |
| 11 | modifications beyond those would be to the         | 11   | A. Correct.                                     |
| 12 | weight of the vehicle. Right?                      | 12   | Q. Okay. Did you account for any                |
| 13 | A. Seemingly.                                      | 13   | loss of fluids that the F-250 may have suffered |
| 14 | Q. Right. And so here we have                      |      | in the crash?                                   |
| 15 | appendix A, which I believe is your showing        | 15   | A. No.  |
| 16 | how you determined the weight used in the          | 16   | Q. Okay. Do you know the level of               |
| 17 | simulation for both vehicles?                      | 17   | fuel in the gas tank of the F-250 at the time   |
| 18 | A. Yes.  | 18   | it was measured?                                |
| 19 | Q. Okay. Here is the F-250 first.                  | 19   | A. Not specifically. Just what was              |
| 20 | And the first weight I see here, weight 250        | 20   | in there. It's part of the 8,040. We know the   |
| 21 | equals 8,040 pounds. I'm assuming that is the      | 21   | weight of it. But you know, not an exact        |
| 22 | weight of the crash vehicle that you weighed       | 22   | amount.   |
| 23 | after the crash?                                   | 23   | Q. You don't know if the tank was               |
|    | Page 79  |      | Page 81   |
| 1  | A. Yes.  | 1    | full, empty? You don't know what fuel level     |
| 2  | Q. Okay. And then you added weight                 | 2    | $\mathcal{E}$                                   |
| 3  | for the driver and certain items that were on      | 3    | A. Just what it was after the                   |
| 4  | the F-250?   | 4    | accident. There's no evidence it leaked out.    |
| 5  | A. Yes.  | 5    | Q. And the same with regard to                  |
| 6  | Q. Okay. And that gave you a total                 | 6    | whatever fluid was in the radiator, that wasn't |
| 7  | $\varepsilon$ $\varepsilon$ $\varepsilon$          | 7    | accounted for?                                  |
| 8  | for the total weight in the simulation?            | 8    | A. Yeah, the radiator did leak some             |
| 9  | A. Yes.  | 9    | out. We know that. But no, we did not think     |
| 10 | Q. Okay. Does HVE allow you to                     | 10   | that was  |
| 11 | account for the position of these additional       | 11   | Q. (Inaudible) fluids contained                 |
| 12 | weights? In other words, does it do you put        | 12   | within the vehicle?                             |
| 13 | in the location of the driver and add 170          | 13   | A. Pardon?                                      |
| 14 | pounds in the driver's seat or is it just a        | 14   | Q. And you didn't account for any               |
| 15 | total weight that's input into the software?       | 15   | other loss of fluids from the vehicle?          |
| 16 | A. You can do it either way.                       | 16   | A. No. We knew some radiator fluid              |
| 17 | Q. Okay. So it does allow you to                   | 17   | had leaked out. We weren't worried about that.  |
| 18 | actually position weight within the vehicle in     | 18   | The rest of the fluid should have been the same |
| 19 | a specific location?                               | 19   | at the time of the accident.                    |
| 20 | A. Well, generally the way we do it                | 20   | Q. All right. And the weight for the            |
| 21 | is we would redistribute the weight ratios. So     | 21   | chainsaw, did you actually measure the          |
|    | I haliarra in the most realize actually mut actual | 22   | chainsaw? Did you weigh it?                     |
| 22 | I believe in the past we've actually put actual    | 44   | A. No. We didn't have the chainsaw.             |

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|    | Bryson, Santana and Joshua v. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 82  |    | Page 84   |  |  |
| 1  | So you had to look something up. It's an Stihl   | 1  | of questions about work that that could have    |  |  |
| 2  | chainsaw, so you had to look something up for    | 2  | been discussed at his first deposition.         |  |  |
| 3  | the original.                                    | 3  | MR. HILL: That's fine. You can                  |  |  |
| 4  | Q. Same same question for the                    | 4  | lodge that lodge that objection. But this       |  |  |
| 5  | tools. Is that based upon measuring the weight   | 5  | was produced as part of his amended report.     |  |  |
| 6  | of the tools, or is that just an estimation?     | 6  | MS. CANNELLA: I understand that.                |  |  |
| 7  | A. Nobody knows what was in the                  | 7  | But my my statement stands.                     |  |  |
| 8  | toolbox. We needed a weight to put in. So we     | 8  | MR. HILL: All right. Well, I                    |  |  |
| 9  | thought 100 would be reasonable. We don't know   | 9  | disagree with your objection.                   |  |  |
| 10 | exactly what it is. Nobody has ever seen         | 10 | Q. (Mr. Hill) The Escape in the                 |  |  |
| 11 | inside the toolbox.                              | 11 | accident suffered quite a bit of broken glass.  |  |  |
| 12 | Q. And what about the storage box, is            | 12 | You would agree with that?                      |  |  |
| 13 | that an estimation or is that you didn't         | 13 | A. Yes.   |  |  |
| 14 | actually weigh the storage box, did you?         | 14 | Q. All right. Did you account for               |  |  |
| 15 | A. No. It was missing. So I think                | 15 | the weight of the glass that was missing when   |  |  |
| 16 | we did some internet research to come up with a  | 16 | you weighed the crashed Escape?                 |  |  |
| 17 | reasonable weight, just like Mr. Grimes did.     | 17 | A. Whatever glass normally it's                 |  |  |
| 18 | Q. All right. The bottom of the page             | 18 | all shoveled up and thrown in the vehicle or it |  |  |
| 19 | is the weight you used for the Ford Escape. In   | 19 | falls in the vehicle. Whatever glass was in     |  |  |
| 20 | your simulation, again I'm assuming that your    | 20 | there, it got accounted for. Whatever glass     |  |  |
| 21 | weight 3,410 is the measured weight of the       | 21 | wasn't in there didn't get accounted for.       |  |  |
| 22 | vehicle after the crash?                         | 22 | Q. Okay. And do you know whether the            |  |  |
| 23 | A. Yes, it is.                                   | 23 | glass was actually the shards of glass was      |  |  |
|    | Page 83  |    | Page 85   |  |  |
| 1  | Q. All right. And with the Escape,               | 1  | put in the vehicle at the time you weighed it?  |  |  |
| 2  | did you add any weight for the cargo that was    | 2  | A. Well, some of it was. But I                  |  |  |
| 3  | behind the second row seat?                      | 3  | don't I didn't account try and account          |  |  |
| 4  | A. Well, it was already in the                   | 4  | for each shard of glass. No, sir. It's the      |  |  |
| 5  | vehicle when we weighed it, so                   | 5  | weight of the vehicle is a reasonable           |  |  |
| 6  | Q. All right. That                               | 6  | approximation in the condition it's shown in at |  |  |
| 7  | A yes, it's in the weight.                       | 7  | the time of our photographs. And we think       |  |  |
| 8  | Q. That's my question. So there                  | 8  | that's reasonable for the accident, plus the    |  |  |
| 9  | was the cargo was still in the back of the       | 9  | occupants the car seats.                        |  |  |
| 10 | Ford Escape at the time you weighed it?          | 10 | Q. And the same question with regard            |  |  |
| 11 | A. Yes.  | 11 | to the placement of the weight. Just to be      |  |  |
| 12 | Q. Okay. Do you know the level of                | 12 | clear, similar to the F-250 you didn't account  |  |  |
| 13 | the fuel tank in the Escape at the time you      | 13 | for the location of the occupants in the        |  |  |
| 14 | weighed it?                                      | 14 | vehicle when you ran the simulation?            |  |  |
| 15 | A. Well, nothing leaked out at the               | 15 | A. Well, they're near the CG. But               |  |  |
| 16 | scene. So it was whatever it was at the time     | 16 | no, we didn't. We just added their weight to    |  |  |
| 17 | of the accident. That's all we were concerned    | 17 | the total vehicle, yes.                         |  |  |
| 18 | about.   | 18 | Q. Okay. All right. Now we can                  |  |  |
| 19 | MS. CANNELLA: Mr. Hill, I'm                      | 19 | let's just confirm a few things that were not   |  |  |
| 20 | trying to give you some leeway here, but this    | 20 | changed between the original simulation and the |  |  |
| 21 | is not new information. And this is a            | 21 | amended simulation.                             |  |  |
| 22 | deposition on his supplemental report. So        | 22 | Just to be clear, the offset that you used      |  |  |
| 23 | we're not we're going to object to a bunch       | 23 | in both simulations was twelve inches. Is that  |  |  |

22 (Pages 82 - 85)

|  | Bryson, Santana and Joshi  |   |  |
|--|--|---|--|
|  | Page 86  |   | Page 88  |
| 1  | correct?   | 1   | used a foot because I I wanted to do it  |
| 2  | A. Yes.  | 2   | exactly from my depo. And that's a that's  |
| 3  | Q. All right. And the speed  | 3   | an advantage to the F-250. That would produce  |
| 4  | A. Time out. Pardon me. Pardon me.   | 4   | more crush.  |
| 5  | Q. Sure.   | 5   | So it keeps my analysis conservative, which  |
| 6  | A. You've actually made a really good  | 6   | is fine. And I'm not worried about an inch   |
| 7  | point. And you did it a little while ago.  | 7   | left or right, up or down.   |
| 8  | I we know the offset is eleven inches  | 8   | Q. All right. And you used a speed   |
| 9  | from or approximately a foot. That's what I  | 9   | of 51 miles per hour for the F-250?  |
| 10   | said in my first depo. But it's eleven from  | 10  | A. Yes.  |
| 11   | the Ford emblem marks on the tailgate.   | 11  | Q. And you have said repeatedly  |
| 12   | So in the original simulation, I don't   | 12  | throughout your initial deposition and then now  |
| 13   | _  | 13  | in this report that the speed of the F-250 at  |
| 14   | was eleven inches or one foot. But in my depo  | 14  | the time of the accident was 51 miles per hour.  |
| 15   | • •  | 15  | Correct?   |
| 16   |  | 16  | A. That's my best number. Yes, sir.  |
| 17   | •  | 17  | Q. All right. I know it hasn't been  |
| 18   | _  | 18  | a full hour, but I need another break. So  |
| 19   |  | 19  | let's just take a five-minute break. What do   |
| 20   | · -  | 20  | you want to do about lunch, Mr. Buchner? I   |
| 21   |  | 21  | don't want to make you work through lunch, bu  |
| 22   | -  | 22  | it's up to you.  |
| 23   |  | 23  | A. I'll cry when I need lunch. Right   |
|  | Page 87  |   | Page 89  |
|  | Page 8/  |   | Page 89  |
| 1  |  | 1   |  |
| $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$   | But it was it was it was done from the   | 1 2   | now I don't need lunch.  |
| 2  | But it was it was it was done from the scan data we had and everything. And so it's  | 1 2 3   | now I don't need lunch.  Q. All right.   |
| 3  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used.   | 3   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a  |
| 3 4  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify  | 3 4   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.   |
| 2<br>3<br>4<br>5   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  | 3<br>4<br>5   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  |
| 2<br>3<br>4<br>5<br>6  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset   | 3<br>4<br>5<br>6  | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.   |
| 2<br>3<br>4<br>5<br>6<br>7   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the  | 3<br>4<br>5<br>6<br>7   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  | 3<br>4<br>5<br>6<br>7<br>8  | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  | 3<br>4<br>5<br>6<br>7<br>8<br>9   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no  | 3<br>4<br>5<br>6<br>7<br>8<br>9   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.   |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | now I don't need lunch.  Q. All right. MR. HILL: Well, let's just take a quick five-minute break. THE WITNESS: Thank you. MS. CANNELLA: Okay. THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.) THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record. MR. HILL: Thanks. Q. (Mr. Hill) The HVE parameters for   |
| 2<br>3<br>4<br>5<br>6<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                     | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun  |
| 22<br>33<br>44<br>55<br>66<br>77<br>88<br>99<br>100<br>111<br>122<br>133<br>144<br>155   | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16                               | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17  | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16                               | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or  |
| 22<br>33<br>44<br>55<br>66<br>77<br>88<br>99<br>100<br>111<br>122<br>133<br>144<br>155<br>166<br>177                             | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.  Q. All right. So why did you use   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or doesn't have a sunroof. Correct?   |
| 22<br>33<br>44<br>55<br>66<br>77<br>88<br>99<br>100<br>111<br>122<br>133<br>144<br>155<br>166<br>177<br>188<br>199               | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.  Q. All right. So why did you use twelve if you now have determined that it was   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or doesn't have a sunroof. Correct?  A. What are you asking?  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                           | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.  Q. All right. So why did you use twelve if you now have determined that it was eleven?   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | now I don't need lunch.  Q. All right. MR. HILL: Well, let's just take a quick five-minute break. THE WITNESS: Thank you. MS. CANNELLA: Okay. THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.) THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record. MR. HILL: Thanks. Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or doesn't have a sunroof. Correct?  A. What are you asking? Q. Yeah. So you used a vehicle in   |
| 22<br>33<br>44<br>55<br>66<br>77<br>88<br>99<br>100<br>111<br>122<br>133<br>144<br>155<br>166<br>177<br>188<br>199<br>200<br>211 | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.  Q. All right. So why did you use twelve if you now have determined that it was eleven?  A. Because I earlier we were using   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | now I don't need lunch.  Q. All right.  MR. HILL: Well, let's just take a quick five-minute break.  THE WITNESS: Thank you.  MS. CANNELLA: Okay.  THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.)  THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record.  MR. HILL: Thanks.  Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or doesn't have a sunroof. Correct?  A. What are you asking?  Q. Yeah. So you used a vehicle in your simulation for the Escape that you got |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20                           | But it was it was it was done from the scan data we had and everything. And so it's approximately a foot. And that's what we used. I don't know why I thought I needed to clarify all of that. But thank you for listening.  Q. Sure. But regardless, the offset you used in the rerun was twelve inches to the left of the Escape?  A. Thank you. Yes.  Q. Right. And and there's no dispute that that's the offset that you believe occurred, in fact?  A. Well, I actually think it's eleven from the in the depo I did an approximate using a a manual scale. But we know where the we know it's precisely eleven if we go to the best data we have.  Q. All right. So why did you use twelve if you now have determined that it was eleven?  A. Because I earlier we were using the orientation from the scans, which was | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | now I don't need lunch.  Q. All right. MR. HILL: Well, let's just take a quick five-minute break. THE WITNESS: Thank you. MS. CANNELLA: Okay. THE VIDEOGRAPHER: The time the time is 12 o'clock p.m. We're off the video record.  (A break was taken.) THE VIDEOGRAPHER: The time is 12:15 p.m. We're back on the video record. MR. HILL: Thanks. Q. (Mr. Hill) The HVE parameters for the Escape that you used in the rerun simulation, they don't differentiate with regard to whether the Escape has a sunroof or doesn't have a sunroof. Correct?  A. What are you asking? Q. Yeah. So you used a vehicle in   |

23 (Pages 86 - 89)

|    | G. Dryant Duchner July 11, 202                  |      |   |  |  |
|----|---|------|---|--|--|
|    | Bryson, Santana and Joshi                       | ıa v | . Rough Country, LLC                            |  |  |
|    | Page 90   |      | Page 92   |  |  |
| 1  | A. Well, from Engineering Dynamics.             | 1    | clearly shows is that the structure of the      |  |  |
| 2  | It was in their database originally, yes.       | 2    | vehicle itself would have produced less crush   |  |  |
| 3  | Q. Right. In HVE's database?                    | 3    | if it were hit at the bumper level, which was   |  |  |
| 4  | A. Yes.   | 4    | the intent of the run.                          |  |  |
| 5  | Q. And did that vehicle have a                  | 5    | Q. Right. I'm just trying to                    |  |  |
| 6  | sunroof that you used in your simulation?       | 6    | establish that in your simulation, you didn't   |  |  |
| 7  | A. It doesn't show a sunroof.                   | 7    | place any cargo in the back of the Escape used  |  |  |
| 8  | Q. Okay. And it doesn't                         | 8    | in the simulation?                              |  |  |
| 9  | differentiate. You can't choose Escape with a   | 9    | A. No, we did not.                              |  |  |
| 10 | sunroof or Escape without a sunroof within the  | 10   | Q. All right. Likewise you didn't               |  |  |
| 11 | HVE software?                                   | 11   | place a car seat in the Escape in the           |  |  |
| 12 | A. HVE doesn't have a choice for with           | 12   | simulation?                                     |  |  |
| 13 | or without sunroof. No.                         | 13   | A. No. We were studying how the                 |  |  |
| 14 | Q. Okay. And so it doesn't consider             | 14   | Escape performed relative to a bumper level     |  |  |
| 15 | whether it has a sunroof or not in determining  | 15   | contact. We wanted to study the structure of    |  |  |
| 16 | its prediction of crush?                        | 16   | the Escape.                                     |  |  |
| 17 | A. That would be up to the user to              | 17   | Q. You're aware obviously that the              |  |  |
| 18 | consider whether or not, you know, that should  | 18   | Defense performed a real-world crash test back  |  |  |
| 19 | be included more than likely. But where the     | 19   | in May of 2023, and the crush that is seen on   |  |  |
| 20 | crush is in the simulation we ran is the bumper | 20   | the Escape in the real-world crash test is very |  |  |
| 21 | level. So as long as you go to bumper level     | 21   | different from the crush seen in your rerun     |  |  |
| 22 | crush, I would say the sunroof would be not a   | 22   | simulation. You would agree with that?          |  |  |
| 23 | particular factor that the simulation could or  | 23   | A. No. Both produced what we what               |  |  |
|    | Page 91   |      | Page 93   |  |  |
| 1  | could not include. But it doesn't mean that if  | 1    | is the critical factor in this case is that     |  |  |
| 2  | you were to in other words, say Mr. Grimes's    | 2    | they both produced demonstrated that            |  |  |
| 3  | crash test, you would want to use the most      | 3    | bumper-level impacts produce less crush than    |  |  |
| 4  | representative vehicle. In the HVE we use the   | 4    | override impacts. So we do have that's          |  |  |
| 5  | most representative vehicle. And sunroofs       | 5    | really the only value of the test is to         |  |  |
| 6  | I've never investigated presence or             | 6    | demonstrate that there would not be any         |  |  |
| 7  | non-presence on other vehicles.                 | 7    | override. That's what we're trying to do with   |  |  |
| 8  | But yeah, as far as HVE goes, it doesn't        | 8    | our simulation is that if you can hit the       |  |  |
| 0  | to my knowledge it's not including suproofs in  | ۵    | humper of a vahicle than you than you and       |  |  |

9 to my knowledge, it's not including sunroofs in 10 its -- in what it has.

11 Q. And you did not modify the Escape 12 vehicle in your simulation to account for the 13 sunroof?

14 A. No. We were not modifying it, no. 15 We were attempting to use it, you know, as --16 as their default vehicle. That is correct.

17 Q. Okay. And the simulation also 18 does not allow you to place cargo within the hatch of the Escape to determine whether that 20 will have any impact on the crush. Correct? 21 A. We don't think it has any impact.

22 No, sir. But if -- we don't think it did. The 23 intent wasn't to put it in there. But what it

9 bumper of a vehicle, then you -- then you end

10 up producing a much more favorable result as

11 far as the, you know, increasing forces and

12 able to decrease crush. But there are a lot of

13 differences beyond that that makes the crash

14 test not representative of our accident.

15 Q. Well, that's a separate question.

16 But let me start with this. How do you define

17 override? Let's make sure we understand that.

18 Do you define it as the bumper completely

misses the other bumper? Is that your 19

20 definition?

21 A. I don't have a definition.

22 There's an understanding -- there can be -- the

23 term doesn't have the exact definition in every

24 (Pages 90 - 93)

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|  | Bryson, Santana and Joshi   |  |  |
|--|---|--|--|
|  | Page 94   |  | Page 96  |
| 1  |   | 1  | Q. The measured crush in your  |
| 2  | override typically discusses that the that  | 2  | simulation is over 20 inches short of the  |
| 3  | some part of one vehicle that's like the bumper   | 3  | observed crush in the crash test. Would you  |
| 4  | is overriding some part of the other vehicle.   | 4  | agree with that?   |
| 5  | In this case we're talking about the bumpers or   | 5  | A. Well, are you saying someone  |
| 6  | the bumper-level frames.  | 6  | measured the crush in the crash test like  |
| 7  | So yeah, that's that's what we're using   | 7  | Mr. Grimes and published that? Because I   |
| 8  | here. But it's you know, it needs to be   | 8  | haven't seen that if he did.   |
| 9  | discussed openly, not it's not just one   | 9  | Q. No. You overlaid it yourself in   |
| 10   | definition that can be perfectly applied to   | 10   | comparing the two crushes.   |
| 11   | everything.   | 11   | A. Well, my intent wasn't to do  |
| 12   | Q. Okay. So there's no one  | 12   | Grimes's work and provide measurements and   |
| 13   | definition of override in your opinion?   | 13   | things. He didn't measure it. I'm just trying  |
| 14   | A. Well, there's one understanding of   | 14   | to show that there's less crush visually   |
| 15   | it. But there's no one exact definition. If   | 15   | obviously between the crash test. So his   |
| 16   | you're teaching a class, you'd say it's when  | 16   | representation of the crash test is inaccurate.  |
| 17   | one bumper goes over the top of another to get  | 17   | Q. What about his representation of  |
| 18   | the concept across. But we have a lot of  | 18   | the crash test is inaccurate?  |
| 19   | different vehicles that hit a lot of different  | 19   | A. Well, he claims there was more  |
| 20   | ways. So you have to look at each accident  | 20   | crush. And then he changes that to the same  |
| 21   | somewhat uniquely.  | 21   | crush in his depo. So that's in our report   |
| 22   | Q. So when you say there was no   | 22   | we just showed the two vehicles overlaid so  |
| 23   | override in the exponent crash test, what   | 23   | that anyone can make their own determination as  |
|  | Page 95   |  | Page 97  |
| ١.,  |   |  |  |
| 1  | MS. CANNELLA: Sorry.  | 1  | to the crush.  |
| $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$   | Mr. Buchner, were you done with your answer?  | 1 2  | to the crush.  Q. All right.   |
|  | •   | _  |  |
| 2  | Mr. Buchner, were you done with your answer?  | 2  | Q. All right.  |
| 2 3  | Mr. Buchner, were you done with your answer?  THE WITNESS: I was. Thank you.  | 2 3  | <ul><li>Q. All right.</li><li>A. He didn't he didn't do that.</li><li>He said he visually saw it. But he didn't</li></ul>  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | Mr. Buchner, were you done with your answer?  THE WITNESS: I was. Thank you.  Q. So when you say that there was no override in the exponent crash testing, what do you mean by that statement?  A. Well, the bumper the rear bumper of the and the structure supporting it specifically because the rear bumper did shift some. But the frame rails of the unibody of the Escape and on one side went into the center of the bumper and stayed there throughout the entire crash test. So we had that bumper level was secure and the strong structures were secure on the bumper of the F-250 on the driver's side. And on the passenger side F-250, the tow hook went into the bumper and pushed it in.  So we maintained bumper-level, frame-level engagement between the two vehicles throughout  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | Q. All right. A. He didn't he didn't do that. He said he visually saw it. But he didn't provide any evidence of it. So we just provided visual evidence of it. Q. Well, we have photographs of the crash test vehicles. A. Visual evidence. Q. Right. And have you requested to inspect the crash test vehicles? A. No. Q. Has anyone from Rough Country ever prevented you from inspecting the crash test vehicles? A. I mean, I've never talked to Rough Country, so I don't know. Q. Any lawyer on behalf of Rough Country said that you you are not allowed to inspect the crash test vehicles?                                  |

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|----------------------|---|----------------------|---|
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| 1                    | Q. Okay.  | 1                    | simulation or the crash testing?  |
| 2                    | A you haven't ever talked about   | 2                    | A. Correct.   |
| 3                    | it, so no.  | 3                    | Q. The speed of the crash test was  |
| 4                    | Q. Have you ever  | 4                    | 49.9 miles per hour. And the speed you ran  |
| 5                    | A. If the crash test is provided and  | 5                    | your simulation was 51. So we have a slight   |
| 6                    | documented, I'm using what was provided and   | 6                    | differentiation there. The crash test was 1.1   |
| 7                    | documented. And I think and that's  | 7                    | mile an hour slower than your simulation. Do  |
| 8                    | that's all I've used. If someone wants me to  | 8                    | you agree with that?  |
| 9                    | inspect the vehicles, I I haven't done that.  | 9                    | A. Yes.   |
| 10                   | No.   | 10                   | Q. Okay. And at a slower speed,   |
| 11                   | Q. Have you ever asked Ms. Cannella   | 11                   | you're going to have less crush indicated on  |
| 12                   | for permission to inspect the vehicles?   | 12                   | the Escape the lower the speed with all other   |
| 13                   | A. I don't know. I don't remember.  | 13                   | variables being equal. Would you agree with   |
| 14                   | Q. Okay. And you know from reading  | 14                   | that?   |
| 15                   | Mr. Crosby's deposition that those vehicles   | 15                   | A. Not in the context of your line of   |
| 16                   | have been preserved and are available at the  | 16                   | questions, no, because we know that the crash   |
| 17                   | Exponent location in Phoenix. Correct?  | 17                   | test was missed to the left by 45 percent   |
| 18                   | A. That's what he said.   | 18                   | at 45 percent more offset. So that's an apples  |
| 19                   | Q. All right. Do you have any reason  | 19                   | and oranges problem. So no, you can't say   |
| 20                   | to dispute that?  | 20                   | that.   |
| 21                   | A. No.  | 21                   | Q. Well, I'm not talking about the  |
| 22                   | Q. Okay. Let's talk about comparing   | 22                   | offset variable. I'm talking about whatever   |
| 23                   | your rerun simulation to the real-world crash   | 23                   | test you run at any offset.   |
|                      | Page 99   |                      | Page 101  |
| 1                    | test performed by the Defense. And I just want  | 1                    | A. Well, then you need to start a new   |
| 2                    | to make sure we're clear on what's the same and   | 2                    | line of questions because basically you're  |
| 3                    | what's different among those two. Okay? The   | 3                    | saying let's compare my simulation to a   |
| 4                    | height of the F-250 is the same in both the   | 4                    | real-world crash test. Well, my simulation  |
| 5                    | simulation and the crash test. We can agree on  | 5                    | compared it to the real-world accident. Your  |
| 6                    | that?   | 6                    | crash test is not the real-world accident.  |
| 7                    | A. Reasonably, yes, sir.  | 7                    | Your crash test if I say it that way, I   |
| 8                    | Q. And same with the with regard  | 8                    | apologize. Exponent's crash test had 45   |
| 9                    | to the Escape. Correct?   | 9                    | percent more offset, which changes an unknown   |
| 10                   | A. Reasonably, yes, sir.  | 10                   | number of things.   |
| 11                   | Q. All right. And in both there   | 11                   | Q. Okay. Let's  |
| 12                   | in neither the simulation nor the crash test  | 12                   | A. Certainly but it certainly   |
| 13                   | were the was cargo placed in the rear of the  | 13                   | will, as a minimum, disadvantage the Escape.  |
| 14                   | Escape.   | 14                   | Q. Okay. Let's say that there was,  |
| 15                   | A. Right.   | 15                   | in the crash testing, the identical offset as   |
| 16                   | Q. We can agree on that?  | 16                   | what you simulated. Let's assume that.  |
| 17                   | A. Correct.   | 17                   | A. Okay. So we're not talking about   |
| 1 /                  |   | 18                   | the Exponent crash test at all now?   |
| 18                   | Q. Okay. There was no sunroof   | 10                   |   |
|                      | Q. Okay. There was no sunroof involved in either your simulation or the crash                 | 19                   | Q. Right. We're talking about in  |
| 18                   | involved in either your simulation or the crash   |                      | Q. Right. We're talking about in  |
| 18<br>19             |   | 19                   | -   |
| 18<br>19<br>20       | involved in either your simulation or the crash testing for the Escape?                       | 19<br>20             | Q. Right. We're talking about in your opinion we're talking about a hypothetical  |
| 18<br>19<br>20<br>21 | involved in either your simulation or the crash testing for the Escape?  A. Correct. Correct. | 19<br>20<br>21<br>22 | Q. Right. We're talking about in your opinion we're talking about a hypothetical real-world crash test. Would it be appropriate |

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|----|--|----|---|--|--|
|    | Page 102   |    | Page 104  |  |  |
| 1  | assuming all other variables were the same?      | 1  | causes first, the simulation is is one          |  |  |
| 2  | MS. CANNELLA: Object to the form                 | 2  | tool. The crash test is another tool. The       |  |  |
| 3  | of the question. It's confusing.                 | 3  | primary difference between these two tools that |  |  |
| 4  | A. Yeah, that's that's an                        | 4  | is the most significant is the excessive offset |  |  |
| 5  | engineering problem.                             | 5  | of the crash test. Thank you for listening. I   |  |  |
| 6  | Q. Well, what speeds go ahead.                   | 6  | don't know why I felt a need to point that out. |  |  |
| 7  | A. It's using information that we                | 7  | Thank you.                                      |  |  |
| 8  | haven't that no one has ever done, you know.     | 8  | Q. Sure. And the weights of the                 |  |  |
| 9  | So you know, normally I'm not worried about a    | 9  | vehicles, when you compared the weights that    |  |  |
| 10 | mile per hour. But sometimes I'm very worried    | 10 | you used in your simulation to the weights of   |  |  |
| 11 | about a mile per hour. So that's I don't         | 11 | the vehicles in the crash test, that's another  |  |  |
| 12 | so that's actually a new analysis that I         | 12 | difference between the two tests or between     |  |  |
| 13 | haven't done before now. So I'm I'm not          | 13 | the two pools, as you describe them?            |  |  |
| 14 | comfortable in doing that. But I'll try to       | 14 | A. Well, I don't remember what the              |  |  |
| 15 | answer your questions.                           | 15 | weights were. But he said he used full gas      |  |  |
| 16 | Q. Let me ask it this way. Do you                | 16 | tanks. I so I'm thinking why are you using      |  |  |
| 17 | have any criticism of the speed of the impact    | 17 | full gas tanks. You're pumping the weight up    |  |  |
| 18 | in the crash test?                               | 18 | on the F-250. But I didn't look at his weight   |  |  |
| 19 | A. In a sense, I do because he                   | 19 | compared to what my weight what my measured     |  |  |
| 20 | reported that the accident speed of the truck    | 20 | weight was.                                     |  |  |
| 21 | could have been down in the forties. That's      | 21 | Q. Okay.  |  |  |
| 22 | part of his opinions. So I was confused as to    | 22 | A. I'm wondering why he's not using             |  |  |
| 23 | why he why he chose the speed he chose. I        | 23 | the measured weight of the vehicle as a         |  |  |
|    | Page 103   |    | Page 105  |  |  |
| 1  | know why I chose 51 because I wanted a worst     | 1  | foundation. So yeah, there are so that is       |  |  |
| 2  | case scenario. But I'm not sure if he's          | 2  | something that could be looked at.              |  |  |
| 3  | trying to work in favor of, you know, proving    | 3  | Q. All right. Are there any other               |  |  |
| 4  | his opinion, which is why he said he needed the  | 4  | other than the offset, which you said is the    |  |  |
| 5  | crash test so he could say that, you know,       | 5  | primary difference, what are what are the       |  |  |
| 6  | override doesn't or not override, but that       | 6  | other differences between the crash test and    |  |  |
| 7  | lift kits don't matter, well, he needs to do a   | 7  | your simulation?                                |  |  |
| 8  | study to show that. So there's a whole lot       | 8  | A. I think we discussed things to be            |  |  |
| 9  | involved in this line of questions that goes     | 9  | considered. I haven't tried to see the          |  |  |
| 10 | way beyond just what you're saying.              | 10 | differences between the two. That's not been a  |  |  |
| 11 | Q. Well, if you if you're going to               | 11 | concern of mine. I tried to look at his crash   |  |  |
| 12 | compare the real-world crash test to your        | 12 | test as to what he represented it to be. My     |  |  |
| 13 | simulation, you would need to run them at        | 13 | simulation was not done for his crash test.     |  |  |
| 14 | approximately the same a speed to be able to do  | 14 | Mine was another methodology. So I don't I      |  |  |
| 15 | an apples-to-apples comparison between the two.  | 15 | don't know the answer to the question off the   |  |  |
| 16 | Correct?   | 16 | top of my head.                                 |  |  |
| 17 | A. Generically, yes.                             | 17 | MS. CANNELLA: Mr. Hill, what                    |  |  |
| 18 | Q. Okay. That's all. So let's talk               | 18 | what in his supplemental reports are we         |  |  |
| 19 | now about the differences between the crash      | 19 | referring to here?                              |  |  |
| 20 | testing done by Exponent and your simulation.    | 20 | MR. HILL: We're referring to his                |  |  |
| 21 | You've brought up you've brought up the          | 21 | criticisms of the crash test in his June 14     |  |  |
| 22 | offset.  | 22 | supplemental report.                            |  |  |
| 23 | A. Yeah. The primary difference that             | 23 | A. Well, I can do that. But that's              |  |  |

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|  | Bryson, Santana and Joshi                       | ia v | . Rough Country, LLC                            |
|--|---|------|---|
|  | Page 106  |      | Page 108  |
| 1  | different than comparing it to the simulation.  | 1    | A. His crash test                               |
| 2  | Q. Well, it's it's within the same              | 2    | Q. Go ahead.                                    |
| 3  | realm. You've made an allegation that the       | 3    | A. The problem is his crash test is             |
| 4  | crash test is invalid because the offset was    | 4    | not this accident. So if but I know what        |
| 5  | improper. And so I'm trying to establish how    | 5    | the accident was. And I did a simulation for    |
| 6  | that compares to your simulation your rerun     | 6    | that. But to just start doing a simulation to   |
| 7  | simulation that I've never had a chance to ask  | 7    | compare to his crash test, I would have to      |
| 8  | you the first question about.                   | 8    | start the whole process over. And I don't know  |
| 9  | MR. HILL: So I think this is well               | 9    | where that would lead me. Certainly I'm I'm     |
| 10                                       | within the scope of his both of his reports.    | 10   | not going to agree that I would even use a      |
| 11                                       | Q. And so this leads to the question            | 11   | simulation to analyze this crash test. I'd      |
| 12                                       | of, with HVE, right, you could change the       | 12   | have to do that analysis, and that hasn't been  |
| 13                                       | parameters within your simulation to match the  | 13   | done.   |
| 14                                       | parameters that were found in the crash         | 14   | Q. Well, your simulation does not               |
| 15                                       | testing. Correct?                               | 15   | analyze the actual subject crash in this case?  |
| 16                                       | A. No.  | 16   | A. Sure, it does. It's a                        |
| 17                                       | Q. And why not?                                 | 17   | representation of the subject crash with the    |
| 18                                       | A. Because I'm not I'm not trying               | 18   | vehicles lower. It's it's not analyzing the     |
| 19                                       | to re-create his crash test. I'm I'm trying     | 19   | accident. But it's used to study the accident.  |
| 20                                       | to understand the effect of on the subject      | 20   | And I've determined that it's reasonable to do  |
| 21                                       | accident of lowering the truck and to           | 21   | it the way that we've done it, yes. But that    |
| $\begin{vmatrix} 21\\22\end{vmatrix}$    | _   | 22   | takes work to do. You can't just do that with   |
| $\begin{vmatrix} 22 \\ 23 \end{vmatrix}$ | been in the business as engineers using physics | 23   | his crash test because that's he that's a       |
| 23                                       |   | 23   |   |
|  | Page 107  |      | Page 109  |
| 1  | and Newton's laws that when you strike the      | 1    | new accident. That's a different animal. I      |
| 2  | structure of a vehicle, the frame of the        | 2    | can't I can't study raccoons as a zoologist     |
| 3  | vehicle, you get less crush. And when you       | 3    | and then turn around and say I'm going to study |
| 4  | don't strike those and hit tailgates, you get   | 4    | opossums, you know, the same way. You've got    |
| 5  | more crush. That was the purpose of it.         | 5    | to take the work you've got to do the work      |
| 6  | I'm criticizing his crash test just purely      | 6    | and see if the methodologies you were using to  |
| 7  | based on his crash test compared to the         | 7    | study it are going to are going to be           |
| 8  | accident. You're asking for another you're      | 8    | reasonable.                                     |
| 9  | asking me to do an analysis I haven't done.     | 9    | Q. That's exactly what I'm getting              |
| 10                                       | Q. I'm asking you is it possible to             | 10   | at. To the determine whether the methodology    |
| 11                                       | do that if you wanted to. Could you change the  | 11   | you used is reasonable, what have you done to   |
| 12                                       | offset in your simulation to the offset that    | 12   | verify that HVE is a scientifically reliable    |
| 13                                       | you claim existed in the crash testing? Is      | 13   | methodology for predicting crush in a           |
| 14                                       | that even possible within the HVE software?     | 14   | hypothetical accident like you've used it in    |
| 15                                       | A. Not in the line of the way I think           | 15   | this case?                                      |
| 16                                       | you're asking the questions. No. I mean,        | 16   | A. Well, that's I mean, I've seen               |
| 17                                       | somebody could go put in some numbers if they   | 17   | HVE used many, many times to study potential    |
| 18                                       | want. But I wouldn't I don't know that I        | 18   | accidents. You know, that's a use of it. I      |
| 19                                       | would I don't know that I would compare         | 19   | mean, I've seen, you know, companies I mean,    |
| 20                                       | those two. But I'd certainly know that I would  | 20   | I'm even sure I've seen auto manufacturers use  |
| 21                                       | compare my simulation to the accident.          | 21   | it, but the to study events that may or may     |
| 41                                       |   |      | ·, · · · · · · · · · · · · · · · · · ·          |
| 22                                       | Q. So you'd compare your simulation             | 22   | not happen. But in this case HVE was            |

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|    | Dryson, Santana and Joshua V. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 110   |    | Page 112  |  |  |
| 1  | using the the stock vehicles that hit frame      | 1  | scientifically reliable methodology?            |  |  |
| 2  | to frame like they like at levels that are       | 2  | MS. CANNELLA: Asked and answered.               |  |  |
| 3  | absorbing the energy, where the AV stiffness     | 3  | Q. Go ahead.                                    |  |  |
| 4  | coefficients are generated.                      | 4  | A. I think that's what I described a            |  |  |
| 5  | And therefore because in the simulation we       | 5  | minute ago. I've been using the program for a   |  |  |
| 6  | ran we did hit the vehicles bumper to bumper,    | 6  | long time. My understanding that this is we     |  |  |
| 7  | it means that it's a and it calculates it        | 7  | have plenty of data to that we're targeting     |  |  |
| 8  | using a methodology that's been well             | 8  | for, that we're given. We have crush stiffness  |  |  |
| 9  | established in the industry. And there's         | 9  | that are available from the program itself. So  |  |  |
| 10 | papers that say that it's valid for this type    | 10 | literally purely within the program, it will    |  |  |
| 11 | of study. That's why HVE sells it, is for us     | 11 | predict crush based on the impact speed that    |  |  |
| 12 | to be able to do this. So we and in this         | 12 | we're given from the black box. And so we can   |  |  |
| 13 | case we also have a treasure-trove of data in    | 13 | use that and match the delta-V's. And then the  |  |  |
| 14 | the black box from the truck. We know the        | 14 | program is designed to report what the crush    |  |  |
| 15 | delta-V's. We know the the you know, the         | 15 | would be.                                       |  |  |
| 16 | speed of the truck at impact. So therefore we    | 16 | That is clearly a proper use of the program     |  |  |
| 17 | have reasonable constraints.                     | 17 | based on my experience, my training, and the    |  |  |
| 18 | We have given stress test coefficients. We       | 18 | literature that's out there in the industry.    |  |  |
| 19 | have given geometries. We know we're hitting     | 19 | This is this is as an engineer, I have no       |  |  |
| 20 | bumper to bumper. We know we're engaging the     | 20 | concerns about that at all. We're not doing     |  |  |
| 21 | two structures of the two vehicles. We know      | 21 | anything new or novel with the program. This    |  |  |
| 22 | we're looking for an impact speed of X and a     | 22 | is what we buy it for.                          |  |  |
| 23 | delta-V of X. And we're using it to predict,     | 23 | Q. Okay. You mentioned all of the               |  |  |
|    | Page 111   |    | Page 113  |  |  |
| 1  | using Newton's laws, what the crush would be.    | 1  | knowns all of the known information that you    |  |  |
| 2  | Q. What article you just mentioned               | 2  | use, which you say supports the use of HVE such |  |  |
| 3  | there are papers that said you could use HVE in  | 3  | as all those things you just mentioned, the     |  |  |
| 4  | this context. Can you cite to any of them in     | 4  | block box data, the delta-V's, the speeds, and  |  |  |
| 5  | this deposition?                                 | 5  | so forth. All of that applies to the to the     |  |  |
| 6  | A. I don't have them memorized off               | 6  | actual crash testing as well, like the crash    |  |  |
| 7  | the top of my head. But I mean they              | 7  | testing has the benefit of all of those same    |  |  |
| 8  | certainly  | 8  | known data points. Correct?                     |  |  |
| 9  | Q. Okay.   | 9  | A. I disagree. I don't that is a                |  |  |
| 10 | A are out there.                                 | 10 | huge broad question. You just went from asking  |  |  |
| 11 | Q. All right. Have you done                      | 11 | me what I did to about Grimes. I think that     |  |  |
| 12 | anything my question my original                 | 12 | that same black box data is available. But to   |  |  |
| 13 | question and I move to strike your answer.       | 13 | just blanket somehow how that relates to the    |  |  |
| 14 | My original question is, have you performed      | 14 | crash test, I need something specific about the |  |  |
| 15 | any testing or any analysis to validate that     | 15 | crash test. I can't just I don't know what      |  |  |
| 16 | your use of HVE in this case was a               | 16 | the what I'm being asked, it's just too         |  |  |
| 17 | scientifically reliable methodology?             | 17 | broad of a of a potential here.                 |  |  |
| 18 | MS. CANNELLA: Object to the form.                | 18 | Q. It's pretty simple. Other than               |  |  |
| 19 | Asked and answered. Misstates the prior          | 19 | the offset, okay, what other data point did the |  |  |
| 20 | question.  | 20 | crash test not follow?                          |  |  |
| 21 | Q. Go ahead. It's a yes-or-no                    | 21 | MS. CANNELLA: Object to the form                |  |  |
| 22 | question. Have you personally done anything to   |    | of the question. I think I think this is        |  |  |
| 23 | validate that your simulation is a               | 23 | outside the scope of his report.                |  |  |

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|   | Bryson, Santana and Joshua V. Rough Country, LLC  |  |  |  |  |
|---|---|--|--|--|--|
|   | Page 114  |  | Page 116   |  |  |
| 1   | MR. HILL: Not even close to being   | 1  | location to what you believe it was in the   |  |  |
| 2   | outside the scope.  | 2  | crash test?  |  |  |
| 3   | Q. But go ahead.  | 3  | MS. CANNELLA: Object to the form   |  |  |
| 4   | MS. CANNELLA: Which which par   | t 4  | of the question. Goes outside his supplemental   |  |  |
| 5   | of the report are you asking about, the   | 5  | report.  |  |  |
| 6   | supplemental  | 6  | Q. Go ahead.   |  |  |
| 7   | MR. HILL: He is he is   | 7  | A. I I'd take time to study before   |  |  |
| 8   | critical the entire report is critical of   | 8  | I even tried to do anything. I would have to   |  |  |
| 9   | the crash testing. And I'm asking him a   | 9  | look at the crash test from that perspective,  |  |  |
| 10  | specific question about what part of the crash  | 10   | which I haven't done. I've literally just used   |  |  |
| 11  | testing other than the offset was incorrect.  | 11   | his data and his answers. You're asking me to  |  |  |
| 12  | A. Well, we've said the offset is the   | 12   | do a separate engineering analysis. I'm not  |  |  |
| 13  | thing that really invalidates it because it's a   | 13   | I'm not willing to tell you what I can do or   |  |  |
| 14  | completely different crash to the accident.   | 14   | how I would do it or discuss even concepts of  |  |  |
| 15  | And then after that Grimes most of my report  | 15   | it until I take the time to look at it from  |  |  |
| 16  | is about Grimes's characterization of it  | 16   | that perspective. I know it sounds simple to   |  |  |
| 17  | without actually having any data that he used.  | 17   | you, but it's not. That's that's how   |  |  |
| 18  | He wants to say it was a visual. And so we  | 18   | mistakes are made. I mean, it needs to it's  |  |  |
| 19  | tried to provide in the report things that  | 19   | an engineering problem that needs its due time   |  |  |
| 20  | demonstrated those things. So the first part  | 20   | and effort before I can start answering those  |  |  |
| 21  | of it is the crash test is not valid because  | 21   | questions.   |  |  |
| 22  | it's not a reasonable representation of the   | 22   | Q. But as you sit here today, you  |  |  |
| 23  | accident. And Grimes himself admits that in   | 23   | can't identify what you would need to do as  |  |  |
|   | Page 115  |  | Page 117   |  |  |
| 1   | his deposition.   | 1  | part of that engineering effort in order to  |  |  |
| 2   | And then the second part of the report has  | 2  | simulate the crash test?   |  |  |
| 3   | to do with basically you can basic  | 2  | A Y 11 to 1 21 Y 1 1   |  |  |
|   |   | 3  | A. I wouldn't start until I took the   |  |  |
| 4   | misrepresentations Mr. Grimes makes about   | 4  | A. I wouldn't start until I took the time to answer that question. And I would   |  |  |
| 5   |   |  |  |  |  |
|   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't   | 4  | time to answer that question. And I would  |  |  |
| 5   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't   | 5  | time to answer that question. And I would start I would open that concept up. And I  |  |  |
| 5   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is   | 4<br>5<br>6  | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would   |  |  |
| 5<br>6<br>7   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my   | 4<br>5<br>6<br>7   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking   |  |  |
| 5<br>6<br>7<br>8  | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to  | 4<br>5<br>6<br>7<br>8  | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to   |  |  |
| 5<br>6<br>7<br>8<br>9   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that  | 4<br>5<br>6<br>7<br>8<br>9   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the  |  |  |
| 5<br>6<br>7<br>8<br>9<br>10   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as   | 4<br>5<br>6<br>7<br>8<br>9<br>10   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself   |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right  | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done  |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  Q. Okay. So what does it take in the  | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  Q. But it would be possible to do   |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  Q. Okay. So what does it take in the HVE software to change the impact location, the  | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  Q. But it would be possible to do that?   |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                     | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  Q. Okay. So what does it take in the HVE software to change the impact location, the offset? How would you do that if you wanted to   | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                                     | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  Q. But it would be possible to do that?  MS. CANNELLA: Objection to the   |  |  |
| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16                               | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  Q. Okay. So what does it take in the HVE software to change the impact location, the offset? How would you do that if you wanted to do it?  | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16                               | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  Q. But it would be possible to do that?  MS. CANNELLA: Objection to the form of the question. Goes outside the  |  |  |
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| 5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | misrepresentations Mr. Grimes makes about conclusions. As far as differences, I don't know that I have any cataloged. The offset is the thing that has been most foremost in my mind. I think that I think that we have to go to the results and, you know, after that look at the results as as issues such as that, you know, the impact wasn't in the right location, that type of stuff.  Q. Okay. So what does it take in the HVE software to change the impact location, the offset? How would you do that if you wanted to do it?  A. We just change the position of the vehicles.   | 4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | time to answer that question. And I would start I would open that concept up. And I would arrange my file materials, and I would start looking at it, and I would start asking the questions. I'm not arrogant enough to think that I know the answer before I do the work. I would do some work to prepare myself to answer that question, and I have not done that.  Q. But it would be possible to do that?  MS. CANNELLA: Objection to the form of the question. Goes outside the supplemental report.  Q. Go ahead.   |  |  |
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|    | Dryson, Santana and Joshua V. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 118   |    | Page 120  |  |  |
| 1  | how is it not possible to compare your           | 1  | possible. An engineer should not answer if      |  |  |
| 2  | simulation to the crash testing?                 | 2  | it's possible unless he can reasonably know if  |  |  |
| 3  | A. Well, because we haven't done the             | 3  | it's possible. I can't reasonably know that     |  |  |
| 4  | work. You have to sit down and look at the       | 4  | until I do the work. And that's I mean, and     |  |  |
| 5  | crash test and then understand it and then       | 5  | that's the difference between you and me. I'm   |  |  |
| 6  | start from a simulation standpoint, is this      | 6  | an engineer. I actually know that there's a     |  |  |
| 7  | something that we should or should not be        | 7  | reason you have to go do the work. You just     |  |  |
| 8  | seeing. See, Grimes's whole ridiculous           | 8  | think it's, hey, just, you know, change the     |  |  |
| 9  | argument is that because is that there was       | 9  | number and put it in and it magically that's    |  |  |
| 10 | some kind of an offset that renders the          | 10 | not that's not a reasonable response to me      |  |  |
| 11 | simulation useless. This is not an offset        | 11 | as a professional engineer. I can't answer      |  |  |
| 12 | not an offset. Excuse me an override crash.      | 12 | your question because I don't know enough to    |  |  |
| 13 | It's not an override. If his crash test proved   | 13 | answer it.                                      |  |  |
| 14 | anything, it's that if you lower the bumpers,    | 14 | Q. Let me ask it this way. Do you               |  |  |
| 15 | you lose the override component of this          | 15 | have any reason to believe that it would not be |  |  |
| 16 | accident.  | 16 | possible?                                       |  |  |
| 17 | And so if his argument is you can't use the      | 17 | MS. CANNELLA: Objection. Asked                  |  |  |
| 18 | simulation because there is override, then we    | 18 | and answered.                                   |  |  |
| 19 | have to do the same thing when we start moving   | 19 | Q. Go ahead.                                    |  |  |
| 20 | the impact location. We have to stop and look    | 20 | MS. CANNELLA: And confusing.                    |  |  |
| 21 | at that and see if it affects something like     | 21 | A. I'd have to I'd have to look at              |  |  |
| 22 | that. So I'm just saying I can't answer your     | 22 | that question from an engineering perspective   |  |  |
| 23 | questions about trying to simulate the crash     | 23 | and take tame to look at it. I don't I have     |  |  |
|    | Page 119   |    | Page 121  |  |  |
| 1  | test because I have to take the time to look at  | 1  | not done that. I cannot do a completely brand   |  |  |
| 2  | it and and consider that as an engineer. I       | 2  | new complete accident investigation or a        |  |  |
| 3  | shouldn't answer questions I haven't looked at   | 3  | complete test versus simulation investigation   |  |  |
| 4  | and considered because there's reasons as to     | 4  | in a casual conversation where you just bring   |  |  |
| 5  | that might come into play. And I don't presume   | 5  | it up for the first time. No. I that would      |  |  |
| 6  | to know all of those things off the top of my    | 6  | be inappropriate.                               |  |  |
| 7  | head for something I have not analyzed from      | 7  | MR. HILL: Move to strike as                     |  |  |
| 8  | that perspective.                                | 8  | unresponsive.                                   |  |  |
| 9  | I have looked at his crash test relative to      | 9  | A. Excuse me. I'm going to respond              |  |  |
| 10 | the accident. I've looked at my simulation       | 10 | to that. Just because you don't understand      |  |  |
| 11 | relative to the accident. You're asking for a    | 11 | what I'm saying, don't say it's not responsive. |  |  |
| 12 | whole other piece of analysis. I'm not I'm       | 12 | I'm giving you the exact right answer as an     |  |  |
| 13 | not prepared to do the analysis sitting here on  | 13 | engineer. Professionally this is the right      |  |  |
| 14 | a new problem. It's a whole new problem.         | 14 | answer. Just because you don't appreciate it,   |  |  |
| 15 | Q. I appreciate your answer,                     | 15 | I'm sorry.                                      |  |  |
| 16 | Mr. Buchner. We're going to be here all day.     | 16 | It's the right answer. It's not as easy as      |  |  |
| 17 | MR. HILL: I move to strike the                   | 17 | you want it to be. And it's not that simple     |  |  |
| 18 | response.  | 18 | answer that you want. The answer is, we don't   |  |  |
| 19 | Q. It was a simple question. I said              | 19 | know until we do it, so I can't tell you the    |  |  |
| 20 | is it possible. And then you went on to          | 20 | answer.   |  |  |
| 21 | your response was, well, I haven't started that  | 21 | Q. Let's  |  |  |
| 22 | yet.   | 22 | A. I can't speculate the answer.                |  |  |
| 23 | A. Well, I can't answer if it's                  | 23 | Q. Let's approach it this way. In               |  |  |
| 1  | ,  | _  |   |  |  |

31 (Pages 118 - 121)

|    | Bryson, Santana and Joshua V. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 122   |    | Page 124  |  |  |
| 1  | your prior deposition when talking about this,   | 1  | accident in the crash test?                     |  |  |
| 2  | you said that HVE is a robust program for        | 2  | MS. CANNELLA: Objection. Asked                  |  |  |
| 3  | analyzing bumper-to-bumper or                    | 3  | and answered.                                   |  |  |
| 4  | structure-to-structure crashes.                  | 4  | Q. That's a yes-or-no question.                 |  |  |
| 5  | A. Yes, sir.                                     | 5  | MS. CANNELLA: Asked and answered.               |  |  |
| 6  | Q. We can agree?                                 | 6  | A. I explained it very well in the              |  |  |
| 7  | A. Yes.  | 7  | last answer.                                    |  |  |
| 8  | Q. The crash testing was a                       | 8  | Q. You have testified in your report            |  |  |
| 9  | bumper-to-bumper, structure-to-structure crash?  | 9  | that this was not an override. It was a         |  |  |
| 10 | A. Actually no. They missed some of              | 10 | bumper-to-bumper, structure-to-structure crash  |  |  |
| 11 | the structure in the way they did it. They       | 11 | test. Are you now saying that you don't         |  |  |
| 12 | moved the they moved the tow hook, which is      | 12 | MS. CANNELLA: Objection.                        |  |  |
| 13 | the tip of the frame, outside the main           | 13 | Q believe that?                                 |  |  |
| 14 | structure of the Escape. They moved it so far    | 14 | MS. CANNELLA: Objection. You                    |  |  |
| 15 | to the left that it's not actually there's       | 15 | mis-testified you mischaracterized his          |  |  |
| 16 | some there's some worry about how the            | 16 | testimony and report. And asked and answered.   |  |  |
| 17 | effect of that. It obviously over it             | 17 | Q. Go ahead.                                    |  |  |
| 18 | disadvantaged the Escape and made the crush      | 18 | A. I'm not a hundred percent sure               |  |  |
| 19 | more than it would have been had that not        | 19 | what you were asking.                           |  |  |
| 20 | happened.  | 20 | Q. It's very simple. You put in your            |  |  |
| 21 | In the accident, that frame horn, that tow       | 21 | report that                                     |  |  |
| 22 | hook, the tip of the frame, that bumper area     | 22 | A. I'm sorry. I'm sorry. We've                  |  |  |
| 23 | did hit on the rear of the Escape and left a     | 23 | already I don't the very simple part of         |  |  |
|    | Page 123   |    | Page 125  |  |  |
| 1  | really nice mark that we can see on that rear    | 1  | the question is your perspective. That doesn't  |  |  |
| 2  | structure area. So if we if we just lower        | 2  | mean I can answer it doesn't mean it's going    |  |  |
| 3  | it, well, we're getting good engagement. But     | 3  | to be a simple question from my perspective     |  |  |
| 4  | as far as a move to the outside, you're now      | 4  | because you don't you don't have all of the     |  |  |
| 5  | starting to mess with that thing that you just   | 5  | perspective I have. We cannot say very simple   |  |  |
| 6  | asked about or that you said I told you about    | 6  | before the question. I wouldn't have to answer  |  |  |
| 7  | previously. That was a that was very             | 7  | to something and agree to something that may or |  |  |
| 8  | accurate, what I said previously. Those are      | 8  | may not be true.                                |  |  |
| 9  | the types of things that have to be gone         | 9  | Q. Well, wait a second now. I can               |  |  |
| 10 | through.   | 10 | I'm not asking a complicated question.          |  |  |
| 11 | That's just an example of the types of           | 11 | A. You are. That's the problem.                 |  |  |
| 12 | things. It doesn't mean it's all the things.     | 12 | Just don't say very simple and insinuate it's a |  |  |
| 13 | And I don't know what all the things are. So I   | 13 | simple question. Just please, very simple is a  |  |  |
| 14 | can't answer the question until we do the work.  | 14 | statement followed by a question. If we could   |  |  |
| 15 | That's just a good example of the type of thing  | 15 | just have the question and let me determine     |  |  |
| 16 | that ought to be considered.                     | 16 | whether   |  |  |
| 17 | Q. I did not ask you whether the                 | 17 | Q. I don't need to be lectured about            |  |  |
| 18 | crash test was representative of the accident.   | 18 | how I ask my questions. If you disagree with    |  |  |
| 19 | I didn't ask you about whether it properly       | 19 | my characterization of the question, that's     |  |  |
| 20 | represented the offset. This question was        | 20 | fine. I'm trying to make the question           |  |  |
| 21 | simple. Regardless of the offset, regardless     | 21 | MS. CANNELLA: Mr. Hill, calm                    |  |  |
| 22 | of the positioning, do you agree it was a        | 22 | down. Calm down. Don't be yelling at the        |  |  |
| 23 | bumper-to-bumper and structure-to-structure      | 23 | witness. He's trying to explain to you his      |  |  |
|    | oumper to oumper and structure-to-structure      | دے | withous. The sturying to explain to you his     |  |  |

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|  | Bryson, Santana and Joshua v. Rough Country, LLC |    |   |  |  |
|--|--|----|---|--|--|
|  | Page 126   |    | Page 128  |  |  |
| 1  | answer. You don't like it. You want it to be     | 1  | Q. Sorry. I've had trouble in the               |  |  |
| 2  | yes or no. And he doesn't have a yes or no       | 2  | past with people hearing me. So I'll turn it    |  |  |
| 3  | answer.  | 3  | down myself. I apologize. I've had multiple     |  |  |
| 4  | MR. HILL: No. He's criticizing                   | 4  | instances in this very case where they said my  |  |  |
| 5  | the form of my question, which I can use the     | 5  | speaker doesn't work.                           |  |  |
| 6  | word   | 6  | A. And I remember that from the last            |  |  |
| 7  | Q. If you don't like very simple,                | 7  | depo. I mean, that's that's a hundred           |  |  |
| 8  | then explain that it's not a very simple         | 8  | percent fair. Thank you. We're good.            |  |  |
| 9  | question.  | 9  | Q. Yeah. So my question is, could               |  |  |
| 10                                       | MS. CANNELLA: That's what he just                | 10 | you is it possible not have you done it.        |  |  |
| 11                                       | did.   | 11 | Is it possible to take your exact HVE           |  |  |
| 12                                       | Q. I'm trying to make the question               | 12 | simulation that you ran in this case and change |  |  |
| 13                                       | as as limited as possible so that it doesn't     | 13 | the offset to match the crash testing offset as |  |  |
| 14                                       | bring in all of these other variables that       | 14 | you've determined that offset to be? Is that    |  |  |
| 15                                       | you're bringing up. I'm trying to establish      | 15 | even is that possible?                          |  |  |
| 16                                       | that HVE, if you can use it to simulate a        | 16 | A. For the reasons we've talked                 |  |  |
| 17                                       | bumper-to-bumper crash like you did, you could   | 17 | about, I don't know.                            |  |  |
| 18                                       | use it to simulate a bumper-to-bumper crash      | 18 | Q. Okay.  |  |  |
|  | like the crash test by just simply changing the  | 19 | A. I don't know if it would be                  |  |  |
| $\begin{vmatrix} 19 \\ 20 \end{vmatrix}$ |  | 20 |   |  |  |
|  | offset because that's the one thing you've       |    | representative or not. I have great concerns    |  |  |
| 21                                       | identified that's different between the crash    | 21 | if it would work. So we don't know.             |  |  |
| 22                                       | test and your simulation?                        | 22 | Q. Well, I'm not asking you if it               |  |  |
| 23                                       | MS. CANNELLA: Asked and answered.                | 23 | would be representative. I'm asking is it       |  |  |
| ,  | Page 127   |    | Page 129  |  |  |
| $\frac{1}{2}$                            | Q. And you're denying that that's                |    | possible to run that type of simulation?        |  |  |
| 2  | true?  | 2  | A. Well, I already told you anybody             |  |  |
| 3  | A. I'm not denying anything. I'm                 | 3  | can go in and change a number and run           |  |  |
| 4  | telling you, you can't just blanket say that's   | 4  | something. It doesn't mean that it's valid or   |  |  |
| 5  | true. You've got to                              | 5  | that it's good or anything like that. I mean,   |  |  |
| 6  | Q. So you  | 6  | you can so I mean, is it possible to move       |  |  |
| 7  | A go do the work                                 | 7  | the positions? Yes. Is it reasonable, will      |  |  |
| 8  | Q. No. You                                       | 8  | you get any value from it? I don't know.        |  |  |
| 9  | A. Can I answer?                                 | 9  | That's the analysis has to be done. You         |  |  |
| 10                                       | Q. Sure.   | 10 | can't but yeah, people can make I mean, I       |  |  |
| 11                                       | A. For the reasons I explained, it's             | 11 | can make it fly out of the air and land on top, |  |  |
| 12                                       | a very I have concerns over answering the        | 12 | I mean, if I want to. But that doesn't mean     |  |  |
| 13                                       | question at all. And that's what I'm telling     | 13 | that's representative or reasonable or a good   |  |  |
| 14                                       | you. It it takes some effort. And that's         | 14 | use of the program or that it would be          |  |  |
| 15                                       | an analysis that hasn't been done. And so it's   | 15 | accurate.                                       |  |  |
| 16                                       | not a simple question at all. It's an            | 16 | Q. What can you cite to as we sit               |  |  |
| 17                                       | incredibly complex question.                     | 17 | here today that would cause that HVE run I've   |  |  |
| 18                                       | Q. All right. If you ran an HVE                  | 18 | just proposed, your exact run but with a        |  |  |
| 19                                       | simulation mirroring yours in this case exactly  | 19 | different offset to all of a sudden be          |  |  |
| 20                                       | except you changed the offset                    | 20 | unrepresentative or unreliable?                 |  |  |
| 21                                       | A. Let me turn the volume down.                  | 21 | A. Well, I've explained, you have to            |  |  |
|  |  |    | 11. ( ) on printed, year not be                 |  |  |
| 22                                       | You're you're I mean, literally it's             | 22 | do an analysis to think about this. That is a   |  |  |

33 (Pages 126 - 129)

23 complete separate engineering analysis than

23 hurting my ears. Let me just --

|   | Page 130   |   | Page 132   |
|---|--|---|--|
| _ ا   | what we're dealing with here. We're using a  | 1   | actually moved a good part of the truck  |
| 2   | ,  | 2   | outside the outside the where it was in  |
| 3   | 11 1   | 3   | the accident. Well, we've got good overlap in  |
| 4   | J 1  | 4   | the accident. You increased the offset by 45   |
| 5   |  | 5   | percent.   |
| 6   |  | 6   | I don't know as I sit here the answer to   |
| 7   | 3 /  | 7   | that question. I'm not smart enough. I have  |
| 8   |  | 8   | to do the work, just like I did in this one. I   |
| 9   | ,  | 9   | have to I have to I have to sit and study  |
| 10  |  | 10  | that. I don't know.  |
| 11  | ,  | 11  | Q. Well, I'm not asking  |
| 12  |  | 12  | A. I can't give you the answer.  |
| 13  |  | 13  | Q. I'm not asking  |
| 14  | 3  | 14  | A. Go ahead.   |
| 15  | to answer the question. You're asking me to do   | 15  | Q. I'm not asking what the result of   |
| 16  |  | 16  | an HVE simulation with those parameters would  |
| 17  | here. And we've got, you know, hundreds of   | 17  | be. I know you can't answer that.  |
| 18  | 8 8  | 18  | A. No, I'm not even pretending to  |
| 19  | we have done.  | 19  | tell you a result. I've never even mentioned   |
| 20  | You're asking me to do all to answer   | 20  | result today. I'm saying I don't know that I   |
| 21  | questions about something we haven't done. And   | 21  | can use it for that. It takes work to look at  |
| 22  | 2. I'm not comfortable doing that. And there are   | 22  | that because there's going to be that's a  |
| 23  | 3 concerns. I gave you one big example is that   | 23  | new analysis. I can't tell you how your house  |
|   | Page 131   |   | Page 133   |
| 1   | they moved the tow hook and the frame outside  | 1   | is going to look until I draw it and design it.  |
| 2   | the back of the vehicle. That you know, and  | 2   | I can't tell you if it's a good house. I have  |
| 3   | B that's that's an issue. That would be  | 3   | to do actually do the work if I'm an architect.  |
| 4   | one an example of an issue that would have   | 4   | You're asking me to tell you an answer that  |
| 5   | to be looked at.   | 5   | that I can't know.   |
| 1   | Q. How would you look at that issue  | 6   | Q. I'm asking you, are you saying  |
| 7   | other than changing the offset?  | 7   | that you can't answer the question as to   |
| 8   | A. I don't know. I haven't done the  | 8   | whether HVE is capable of simulating the crash   |
| 9   | work. That's the thing about it. You have to   | 9   | test?  |
| 10  | do the work. I have to sit down and say, okay,   | 10  | MS. CANNELLA: Asked and answered   |
| 11  | we're going to prepare ourselves to look at  | 11  | many times.  |
| 12  | this. That's you think I'm I'm not   | 12  | Q. Is that your answer, that without   |
| 13  | -  | 13  | doing work, without doing an investigation,  |
| 14  | _  | 14  | without you can't answer here today whether  |
| 15  | -  | 15  | HVE is even capable of simulating an accident  |
| 16  | -  | 16  | like the crash test?   |
| 17  | •  | 17  | MS. CANNELLA: Same objection.  |
| 18  | •  | 18  | A. Yes. For all of the things I've   |
| 19  | MS. CANNELLA: Objection. Outside   | 19  | talked about.  |
| 20  | -  | 20  | Q. Okay.   |
| 21  |  | 21  | -  |
| 22  | A. How does that affect the what   | 22  | Q. All right. And you've explained   |
| 1   |  |   |  |
| 11<br>22<br>33<br>4<br>55<br>66<br>77<br>88<br>99<br>10<br>11<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>20<br>21 | they moved the tow hook and the frame outside the back of the vehicle. That you know, and that's that's an issue. That would be one an example of an issue that would have to be looked at.  Q. How would you look at that issue other than changing the offset?  A. I don't know. I haven't done the work. That's the thing about it. You have to do the work. I have to sit down and say, okay, we're going to prepare ourselves to look at this. That's you think I'm I'm not omnipotent. I have to do the work. Q. What work are you referring to? You just said the tow hook is outside of where it was in the crash. That relates solely to the offset. What work would you need to determine how to deal with that?  MS. CANNELLA: Objection. Outside the scope of his supplemental reports. Q. Go ahead. | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | is going to look until I draw it and design it.  I can't tell you if it's a good house. I have to do actually do the work if I'm an architect.  You're asking me to tell you an answer that that I can't know.  Q. I'm asking you, are you saying that you can't answer the question as to whether HVE is capable of simulating the crash test?  MS. CANNELLA: Asked and answered many times.  Q. Is that your answer, that without doing work, without doing an investigation, without you can't answer here today whether HVE is even capable of simulating an accident like the crash test?  MS. CANNELLA: Same objection.  A. Yes. For all of the things I've talked about.  Q. Okay.  A. That can't be given today. |

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|  | Bryson, Santana and Joshi   |  | . 1100811 000111111111111111111111111111  |
|--|---|--|---|
|  | Page 134  |  | Page 136  |
| 1  | the question as to whether HVE is capable of  | 1  | at all, period. To go to 13 means we're now   |
| 2  | simulating the crash test?  | 2  | studying other accidents.   |
| 3  | MS. CANNELLA: Objection.  | 3  | At twelve I know I'm conservative, and I  |
| 4  | Q. You've given us all the reasons  | 4  | know I'm consistent with my deposition, and I   |
| 5  | for why you can't answer that question?   | 5  | know that it allows me to give my opinions. It  |
| 6  | MS. CANNELLA: Objection. Asked  | 6  | doesn't mean we couldn't use 13, but I have to  |
| 7  | and answered.   | 7  | sit and decide if it would be appropriate to do   |
| 8  | Q. Okay. Asked and answered. So   | 8  | that.   |
| 9  | it's been answered. That's what I want to   | 9  | I've done that at twelve. You keep wanting  |
| 10   | confirm.  | 10   | me to answer questions that haven't been  |
| 11   | A. Well, we don't know the we   | 11   | engineering processed as a as a responsible   |
| 12   | don't we have to do the analysis before we  | 12   | engineer. I can't answer the question because   |
| 13   | can give all the answers. We can give you an  | 13   | we haven't that's outside the scope of what   |
| 14   | example of an answer. But we don't know. So   | 14   | we've done in the past.   |
| 15   | no, the analysis has to be done before the  | 15   | Q. I haven't asked you whether that   |
| 16   | question can be answered. That's that's my  | 16   | type of test would be relevant to this case. I  |
| 17   | answer is you don't know until you do the   | 17   | didn't ask you whether it was relevant to the   |
| 18   | analysis. And and that's what you're  | 18   | subject accident.   |
| 19   | saying.   | 19   | A. I need a restroom break. I need a  |
| 20   | So no, we don't know. And I've given you  | 20   | restroom break.   |
| 21   | examples of why and tried to explain why why  | 21   | Q. The question was only, can you run   |
| 22   | it's not simple at all. That's the that's   | 22   | the   |
| 23   | the correct answer. And it's the same thing   | 23   | THE WITNESS: Can I take a   |
|  | Page 135  |  | Page 137  |
| 1  | I've been trying to say for the last half hour.   | 1  | restroom break?   |
| 2  | Q. Is it possible to run the HVE  | 2  | MR. HILL: Sure.   |
| 3  | you ran it at twelve inches offset. Can you   | 3  | THE WITNESS: Okay. Thanks.  |
| 4  | run it at 13?   | 4  | THE VIDEOGRAPHER: The time is   |
| 5  | A. We've answered this question.  | 5  | 1:03 p.m. We are off the video record.  |
| 6  | Q. So the answer is yes? I want to  | 6  | (A break was taken.)  |
| 7  | make sure it's clear.   | 7  | THE VIDEOGRAPHER: The time is   |
| 8  | A. No. No.  | 8  | 1:13 p.m. We're back on the video record.   |
| 9  | Q. You can run it at 13?  | 9  | MR. HILL: Thanks.   |
| 10   | A. No. You're wrong. We've told you   | 10   | Q. (Mr. Hill) Mr. Buchner, I'm sorry  |
|  | •   |  | -   |
| 1 1 1  | that when that you can make it do any you   | ] ]  | if we got a little sideways there I I was   |
| 11 12  | that when that you can make it do any you can put the number in and run it. But it's not  | 11 12  | if we got a little sideways there. I I was  |
| 12   | can put the number in and run it. But it's not  | 12   | only trying to speak loudly so that you could   |
| 12<br>13   | can put the number in and run it. But it's not necessarily going to be valuable or  | 12<br>13   | only trying to speak loudly so that you could hear me because I know we had problems the last   |
| 12<br>13<br>14   | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car   | 12<br>13<br>14   | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of  |
| 12<br>13<br>14<br>15                                     | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  | 12<br>13<br>14<br>15                                     | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as   |
| 12<br>13<br>14<br>15<br>16                               | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point.  | 12<br>13<br>14<br>15<br>16                               | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent   |
| 12<br>13<br>14<br>15<br>16<br>17                         | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point.  A. But no, it is your point.  | 12<br>13<br>14<br>15<br>16<br>17                         | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18                   | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point. A. But no, it is your point. Q. Okay.  | 12<br>13<br>14<br>15<br>16<br>17<br>18                   | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your attempts to answer. But I think we've  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19             | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point.  A. But no, it is your point.  Q. Okay.  A. And you're not listening to my   | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19             | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your attempts to answer. But I think we've established a record now of what you can and   |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point. A. But no, it is your point. Q. Okay. A. And you're not listening to my point. My point is, we don't we cannot   | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your attempts to answer. But I think we've established a record now of what you can and can't answer. And I'm glad to revisit that  |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point. A. But no, it is your point. Q. Okay. A. And you're not listening to my point. My point is, we don't we cannot change those things until we do an analysis | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your attempts to answer. But I think we've established a record now of what you can and can't answer. And I'm glad to revisit that any of that if you would like, but I don't |
| 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | can put the number in and run it. But it's not necessarily going to be valuable or representative, just like the dropping the car from the moon.  Q. That's but that's not my point. A. But no, it is your point. Q. Okay. A. And you're not listening to my point. My point is, we don't we cannot   | 12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | only trying to speak loudly so that you could hear me because I know we had problems the last time. And I apologize about the frustration of us misfiring. And I'm trying to ask you as as direct and as, you know, intelligent questions as I can. And so I appreciate your attempts to answer. But I think we've established a record now of what you can and can't answer. And I'm glad to revisit that  |

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|----|--|----|---|--|--|
|    | Page 138   |    | Page 140  |  |  |
| 1  | for the record that the volume of your voice     | 1  | Q. Well, that wasn't my question.               |  |  |
| 2  | and the aggressiveness with your questioning     | 2  | Can you cite to an example where you've given   |  |  |
| 3  | was not related to the to the technical          | 3  | testimony like this using HVE before where it   |  |  |
| 4  | difficulties and it goes up the more irritated   | 4  | was found admissible in court?                  |  |  |
| 5  | you are with him. So if you could please lay     | 5  | A. Yeah, I don't know. That's too               |  |  |
| 6  | off of that, we would appreciate that.           | 6  | big a question for me to know the answer to     |  |  |
| 7  | MR. HILL: I'm fine with that. I                  | 7  | here today. I don't know.                       |  |  |
| 8  | will note that he was irritated with me as       | 8  | Q. Okay. I think I already know how             |  |  |
| 9  | well.  | 9  | you're going to answer this, but I feel like I  |  |  |
| 10 | A. I'm happy to proceed, sir. Thank              | 10 | have to ask the question. If the HVE software   |  |  |
| 11 | you.   | 11 | that you use is accurate in predicting crush    |  |  |
| 12 | Q. All right.                                    | 12 | and intrusion, would you agree that it should   |  |  |
| 13 | A. And I did need the break.                     | 13 | be able to predict the levels of crush and      |  |  |
| 14 | Q. Yeah, I understand. And I'm happy             | 14 | intrusion that were seen in the crash test if   |  |  |
| 15 | to take a break at any time. And I'll admit, I   | 15 | the proper parameters that were involved with   |  |  |
| 16 | needed a break as well. So can you cite to any   | 16 | the crash test are input into the software?     |  |  |
| 17 | instance that you're aware of where an HVE       | 17 | MS. CANNELLA: Object to the form                |  |  |
| 18 | simulation was found admissible in court to      | 18 | of the question. Goes outside the scope of his  |  |  |
| 19 | support opinions regarding the level of crush    | 19 | supplemental testimony. And asked and           |  |  |
| 20 | that would be predicted in a hypothetical        | 20 | answered.                                       |  |  |
| 21 | crash?   | 21 | Q. Go ahead.                                    |  |  |
| 22 | A. I've never tried to do that. No,              | 22 | A. The answer to that is the same as            |  |  |
| 23 | sir. I would imagine that we've used it to       | 23 | the other questions. I don't know. I can't      |  |  |
|    | Page 139   |    | Page 141  |  |  |
| 1  | demonstrate before. But I've never even          | 1  | agree to that at all as I sit here for the same |  |  |
| 2  | thought about that question before now. I        | 2  | reasons we've been talking about.               |  |  |
| 3  | don't know.                                      | 3  | Q. And I don't want to revisit that.            |  |  |
| 4  | Q. But you're not aware of any                   | 4  | But one of the main reasons is that you haven't |  |  |
| 5  | instances where that's actually happened?        | 5  | tried that and haven't done the work. Is that   |  |  |
| 6  | A. I might be. I that's a big                    | 6  | fair?   |  |  |
| 7  | question.  | 7  | MS. CANNELLA: I object to the                   |  |  |
| 8  | Q. And you have never in your career             | 8  | form of the question. Asked and answered.       |  |  |
| 9  | attempted to use an HVE simulation like this     | 9  | Mis-summarizes his testimony.                   |  |  |
| 10 | one as admissible evidence in court to support   | 10 | MR. HILL: That's why I'm asking.                |  |  |
| 11 | opinions regarding the predicted level of crush  | 11 | MS. CANNELLA: Mr. Hill, if we're                |  |  |
| 12 | in a hypothetical crash before this case?        | 12 | going to keep going on this line of             |  |  |
| 13 | A. I can't say I haven't. I mean,                | 13 | questioning, I need you to explain to me why    |  |  |
| 14 | we we use it to study accidents all the          | 14 | questions about whether Mr. Buchner used HVE to |  |  |
| 15 | time. I mean, that's that's what it's there      | 15 | re-create Mr. Grimes's crash test are relevant  |  |  |
| 16 | for. And I've seen other people, you know, use   | 16 | to his report his supplemental report. I        |  |  |
| 17 | it. I think I've even seen the auto              | 17 | don't he did not do it. And you've been         |  |  |
| 18 | manufacturers use it to study what happens in    | 18 | asking him questions about if he could do it    |  |  |
| 19 | crashes so they don't have to crash cars, which  | 19 | for probably close to an hour now. So if it's   |  |  |
| 20 | is exactly what we're doing here. So I think     | 20 | not work he did, I don't understand how this is |  |  |
| 21 | we've done this many times, just not here        | 21 | relevant to his supplemental reports.           |  |  |
| 22 | knowing any examples of it. I'm here to look     | 22 | MR. HILL: It's relevant to his                  |  |  |
| 23 | at this case.                                    | 23 | supplemental report of May 8 of 2024 where for  |  |  |

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|    | Diyson, Santana and Josh                        | aa v | . Rough Country, LLC                            |
|----|---|------|---|
|    | Page 142  |      | Page 144  |
| 1  | the first time he actually provided legitimate  | 1    | Mr. Grimes even said.                           |
| 2  | HVE data and produced a simulation that         | 2    | MR. HILL: Well, that's the point                |
| 3  | included the axle of data upon which that       | 3    | I'm trying to make. So if you disagree with     |
| 4  | simulation was based. And so well within the    | 4    | it, that's fine. But in analyzing whether HVE   |
| 5  | scope of this deposition is the reliability of  | 5    | is reliable in the way he used it, I can ask    |
| 6  | the HVE methodology that he used in generating  | 6    | questions about what situations it is and what  |
| 7  | his FR26 amended report.                        | 7    | situations it's not reliable.                   |
| 8  | MS. CANNELLA: And and those                     | 8    | MS. CANNELLA: And he's answered                 |
| 9  | questions are fine. But the questions you've    | 9    | that question a hundred times.                  |
| 10 | been asking him are about could he use HVE to   | 10   | MR. HILL: He's never even                       |
| 11 | re-create a Defense expert Exponent crash       | 11   | answered the question about whether it's        |
| 12 | test, which is not not in his report. It's      | 12   | reliable in predicting the results of the crash |
| 13 | not work he did. It's not work he was asked to  | 13   | test. That's the question he won't answer.      |
| 14 | do or tried to do. It's not work that the       | 14   | MS. CANNELLA: He he has                         |
| 15 | Defense did. So it's not an issue here.         | 15   | answered that many times. He said it's          |
| 16 | And you know, if you want to ask him about      | 16   | reliable in ours. And he would have to study    |
| 17 | his data that he produced with his May report   | 17   | it to know if it's reliable in a crash in       |
| 18 | or reliability of HVE in general, that's fine.  | 18   | the Exponent test. That's what he said for the  |
| 19 | But the questions about whether he could do     | 19   | last 45 minutes. So you know, that's those      |
| 20 | work that he didn't do for the Defense side is  | 20   | questions that line of questions, unless        |
| 21 | not it's not in his report. It's not            | 21   | there's something else you haven't told me      |
| 22 | relevant to his report. And I'm going to        | 22   | about why it would be permissible to go into    |
| 23 | object to any more of that.                     | 23   | this stuff for so long, I'm going to object to  |
|    | Page 143  |      | Page 145  |
| 1  | MR. HILL: It relates to the                     | 1    | that. Just when you ask                         |
| 2  | reliability of HVE.                             | 2    | MR. HILL: He can't answer the                   |
| 3  | MS. CANNELLA: It doesn't. It                    | 3    | question or doesn't have the ability to answer  |
| 4  | doesn't. It relates to the reliability of HVE   | 4    | doing future work as to whether HVE could       |
| 5  | in a crash test that he did not analyze. That   | 5    | reliably predict the crash test if the proper   |
| 6  | he didn't he did analyze it, but he didn't      | 6    | inputs were put into the software.              |
| 7  | use HVE to create it.                           | 7    | MS. CANNELLA: You're talking                    |
| 8  | MR. HILL: All right. I'm not                    | 8    | about the crash test again. He didn't do that.  |
| 9  | going to sit here and argue with you. I'll ask  | 9    | MR. HILL: I'm not asking whether                |
| 10 | my questions. You can object, and we can take   | 10   | he's done it. I'm saying with his knowledge     |
| 11 | it up with the                                  | 11   | and expertise and his you know, he says he      |
| 12 | MS. CANNELLA: Well, I'm getting                 | 12   | knows all about HVE and how it's reliable and   |
| 13 | real close to telling him not to answer things. | 13   | how it's used in the industry and all its       |
| 14 | So that's why I understand what your argument   | 14   | applications. And so based upon all that, he    |
| 15 | is. So if we have to call the Court, I want to  | 15   | chose to use it in this case. And I'm asking    |
| 16 | understand what your argument is. So I'll       | 16   | based upon all of that knowledge and            |
| 17 | agree to it if it's reasonable. But it doesn't  | 17   | information and, you know, experience with HVE, |
| 18 | seem reasonable to me at this point.            | 18   | should it be able to predict the crash test     |
| 19 | MR. HILL: The argument is that                  | 19   | results if the proper inputs are put into the   |
| 20 | HVE, if it's reliable, it should be reliable    | 20   | software.                                       |
| 21 | across simulation of all accidents.             | 21   | MS. CANNELLA: And he said he                    |
| 22 | MS. CANNELLA: That's absolutely                 | 22   | doesn't know. I mean, he's literally said that  |
| 22 | ino. Cili (1) Ellin. That b abbolatory          |      | account Amount I mount no b interumy bard that  |

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23 probably about twenty times.

23 not true. That's actually opposite of what

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|-------|---|----------------|---|
|       | Page 146  |                | Page 148  |
| 1     | MR. HILL: Okay. Great. Then   | 1              | Q. And I'm just asking how you how  |
| 2     | that's good. If he can't answer that question,  | 2              | do you quantify that? What do you mean by   |
| 3     | that's fine.  | 3              | total crush, and how did you make that  |
| 4     | MS. CANNELLA: Can we move on?   | 4              | determination?  |
| 5     | MR. HILL: Yeah. That was the  | 5              | A. This PowerPoint that goes through,   |
| 6     | last question I was asking on the issue, and  | 6              |   |
| 7     | he's answered it.   | 7              | the car into levels. And we actually  |
| 8     | MS. CANNELLA: Great.  | 8              | quantified it at each level. And at every   |
| 9     | Q. (Mr. Hill) Hold on. Let me share   | 9              | level there was more crush except for, you  |
| 10    | my screen. Can you see my screen?   | 10             | know, at that frame level.  |
| 11    | A. Yes, sir.  | 11             | Q. Right. And so that's just a  |
| 12    | Q. All right. This is your June 14,   | 12             | summation of your level-by-level analysis of  |
| 13    | 2024 letter to Ms. Cannella that's titled   | 13             | the two crushes.  |
| 14    | rebuttal report. Is that okay if we call it   | 14             |   |
| 15    | rebuttal report?  | 15             | <ul><li>A. Yep.</li><li>Q. That's what I'm trying to get.</li></ul>                 |
| 16    | A. Yes, sir. Thank you.   | 16             | <ul><li>Q. That's what I'm trying to get.</li><li>A. Yes, sir. Thank you.</li></ul> |
|       | •   |                | •   |
| 17    | Q. All right. And in connection with  | 17             | Q. All right. And did you quantify  |
| 18    | preparing this report, the additional material  | 18             | an actual amount or you call it   |
| 19    | you received was the report and deposition of   | 19             | significantly less. Did you actually come up  |
| 20    | Mr. Grimes and Mr. Crosby, their file   | 20             | with a number?  |
| 21    | Grimes's file material, and the scanned data  | 21             | A. No. Remember, Grimes didn't make   |
| 22    | photos and video data from the crash test. Is   | 22             | any measurements. We didn't either. We did a  |
| 23    | that the full list of material that was new   | 23             | visual comparison at the levels, and we did it                                      |
|       | Page 147  |                | Page 149  |
| 1     | that you used in generating this rebuttal   | 1              | , , , , , , , , , , , , , , , , , , ,   |
| 2     | report?   | 2              |   |
| 3     | A. Yes, sir.  | 3              | a number. If I did, it would be in here   |
| 4     | Q. Okay.  | 4              | somewhere.  |
| 5     | A. It says Grimes's file materials  | 5              | Q. And that same applies to item  |
| 6     | too. I don't know if you listed that. But   | 6              | number two, you don't know if is that right?  |
| 7     | that that lists everything.   | 7              | A. Right. We did the drawings. We   |
| 8     | Q. I did. I meant to if I didn't.   | 8              | can see it in the drawings. Yeah. Let me  |
| 9     | A. All right. We're good.   | 9              | let me go down here and look at the drawings.                                       |
| 10    | Q. All right. Under your observation  | 10             | Maybe we did quantify it on the drawings. So  |
| 11    | section, your first point is the total crush on   | 11             | I'm running down in the report. Yeah. Sorry.  |
| 12    | the test Escape is significantly less than in   | 12             | Let me make it so I can move it a little  |
| 13    | the accident. How do you define total crush?  | 13             | quicker.  |
| 14    | A. We did a PowerPoint based on that.   | 14             | Nope. I don't think we did a number unless  |
| 15    | In other words, you'd look at the I mean,   | 15             | it's stated in a paragraph somewhere.   |
| 16    | clearly the crush at the bumper level in the  | 16             | Q. All right. Item number three   |
| 17    | crash test is going to be more than in the  | 17             | states, the slope of the crash pulse was  |
| 18    | accident because there was bumper-to-bumper   | 18             | greater in the test vehicles than the accident                                      |
| 19    | contact. So you know, at the at the   | 19             | vehicles. That's also true of your HVE  |
| 1     | •   |                |   |
| 20    | critical level, which is the frame level,   | 20             | simulation. Correct?  |
| 20 21 |   |                |   |
|       | critical level, which is the frame level,<br>there's more crush. But if you look at the<br>whole car, there's there's more crush in the | 20<br>21<br>22 |   |

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23 the frame level.

23 accident because the frame wasn't engaged.

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|--|--|-------|--|
|  | Page 150   |       | Page 152   |
| 1  | Q. And the fact that there is the  | 1     | contact?   |
| 2  | slope of the crash pulse was different was                                   | 2     | A. Well, there was full  |
| 3  | different between your simulation and the                                    | 3     | bumper-to-bumper there was bumper-to-bumper  |
| 4  | accident vehicles doesn't invalidate your                                    | 4     | contact. And the frame level structure of the                                      |
| 5  | simulation, does it?   | 5     | Escape remained in contact with the frame level                                    |
| 6  | A. No. Because he he simulated   | 6     | bumper level of the F-250 the whole time. I  |
| 7  | it he did a crash test for a different                                       | 7     | show it in photographs and PowerPoints.  |
| 8  | accident than our accident. In other words,                                  | 8     | Q. Was there any point where the   |
| 9  | they're different accidents. He did one with                                 | 9     | F-250 bumper was on top of or beyond the level                                     |
| 10                                       | the truck going too far to the left. And we                                  | 10    | of the bumper of the of the Escape in the  |
| 11                                       | did one that represents the subject accident.                                | 11    | test?  |
| 12                                       | Q. Right. But in both instances, the   | 12    | A. Well, we're now getting into  |
| 13                                       | slope of the crash pulse was greater than the                                | 13    | because of the way the test was run, there's                                       |
| 14                                       | accident vehicles. And that fact did not make                                | 14    | there's problems with it. But when we look at                                      |
| 15                                       | your simulation invalid?   | 15    | the structure, I would say no. If you want to                                      |
| 16                                       | A. No. No, it doesn't. That that   | 16    | argue about the bumper, where the bumper was                                       |
| 17                                       | fact alone just tells you that the Escape is                                 | 17    | able to engage the the the tow hook of   |
| 18                                       | stronger, that the Escape at the bumper                                      | 18    | the F-250, it stayed engaged the whole time.                                       |
| 19                                       | level even with this advantage by moving the                                 | 19    | And where the frame was able of the Escape   |
| 20                                       | vehicles 45 percent further to the left, the                                 | 20    | was able to engage the bumper, it stayed   |
| 21                                       | Escape still is stronger and resists crushing                                | 21    | engaged the whole time.  |
| 22                                       | more.  | 22    | Q. All right. And item number six,   |
| 23                                       | Q. Right. So there's nothing   | 23    | when you talk about the F-250's bumper striking                                    |
|  | Page 151   |       | Page 153   |
| 1  | unexpected about item number three with either                               | l     | the test Escape's bumper flush, was the impact                                     |
| 2  | test?  | 2     | from the F-250, was it the secondary energy  |
| 3  | A. There's nothing what?   | 3     | absorption brackets that impacted the Escape's                                     |
| 4  | MS. CANNELLA: There's nothing  | 4     | bumper or was it actually the F-250 bumper?  |
| 5  | what?  | 5     | A. It was the it was the bumper  |
| 6  | MR. HILL: Unexpected.  | 6     | was flush to the two bumpers were flush to   |
| 7  | MS. CANNELLA: I object to the  | 7     | each other. You know, the tow hook sticks out                                      |
| 8  | form of the question as vague.   | 8     | a little bit. But no, we're not talking about                                      |
| 9  | Q. I think you already answered it.  | 9     | the seize brackets engaging that level that  |
| 10                                       | Right?   | 10    | frame level. They were down below that. It   |
| 11                                       | A. Okay.   | 11    | was the bumper-to-bumper level that was flush.                                     |
| 12                                       | Q. All right. Item number four, when   | 12    | Q. Right. And so that's what I   |
| 13                                       | comparing the crash test to the accident, you                                | 13    | wanted to clarify. In the test the seize   |
| 14                                       | said the vehicle-to-vehicle force was greater                                | 14    | brackets didn't have any impact on the   |
| 15                                       | in the test than in the accident.  | 15    | accident on the crash test. Is that true?  |
| 16                                       | A. Yes.  | 16    | A. Well, leaving the offset problem  |
| 17                                       | Q. Okay. Is that also true about   | 17    | out, the seize brackets were not called upon in                                    |
| 18<br>19                                 | your HVE simulation? A. Yes.   | 18    | the test yeah, they were kind of called upon                                       |
|  |  | 19    | because of the offset, so I can't say that.  |
| $\begin{vmatrix} 20 \\ 21 \end{vmatrix}$ | Q. Okay. We and I think we've covered this. But item five, the basis of your | 20    | Yeah. Because of the offset, they were called                                      |
| $\begin{vmatrix} 21\\22\end{vmatrix}$    |  | 21 22 | upon on the driver side.   |
|  | opinion that the F-250 did not override in the                               | 22 23 | Q. All right. Number seven says the test resulted in less rear seat deflection and |
| 23                                       | test is because there was bumper-to-bumper                                   | 43    | test resulted in less real seat deflection and                                     |

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| 1  | movement than in the accident. Do you agree     | 1    | was pushed in enough to actually impact the     |
| 2  | that there was rear seat deflection in the      | 2    | rear seat in the crash?                         |
| 3  | crash test?                                     | 3    | A. Yeah. Well, the cameras that were            |
| 4  | MS. CANNELLA: Objection.                        | 4    | supposed to show that didn't function in the    |
| 5  | Which which seat are we talking about?          | 5    | crash test. You know, the cameras moved. So     |
| 6  | MR. HILL: Well, I'm using what he               | 6    | we don't we're kind of deprived of some of      |
| 7  | says up here, less rear seat deflection. So     | 7    | the information that could have been had. I     |
| 8  | I'm talking about whatever he's talking about.  | 8    | haven't thought to I don't believe they did,    |
| 9  | He you tell me.                                 | 9    | but I don't as I sit here, I haven't been       |
| 10 | A. Well well, less doesn't mean                 | 10   | able to do that analysis either.                |
| 11 | there was some.                                 | 11   | Q. Okay. So as we sit here today, if            |
| 12 | Q. And that's what I'm getting at.              | 12   | I understand you, you don't know whether the    |
| 13 | A. Well, let me answer. Grimes                  | 13   | rear hatch of the Escape impacted the second    |
| 14 | agrees with this. I think from my memory there  | 14   | row seat back in the crash test?                |
| 15 | was some. But he didn't measure the position    | 15   | A. In the crash test, no. What I                |
| 16 | of the seat and report the relative positions   | 16   | tried to use to look for that type of stuff, I  |
| 17 | of the seat start to finish of his crash test.  | 17   | think there's two video cameras, and neither    |
| 18 | So my memory is that there was that I think     | 18   | one of them functioned.                         |
| 19 | there was some, but it was remarkably less than | 19   | Q. Do you know whether there was any            |
| 20 | in the accident. But I don't know. So that's    | 20   | gap after the crash test between the rear hatch |
| 21 | my memory right now. But the photos show what   | 21   | and the rear seat?                              |
| 22 | they show.                                      | 22   | A. My recollection is there is, yes,            |
| 23 | Q. Okay. And you haven't examined               | 23   | sir.  |
|    | Page 155  |      | Page 157  |
| 1  | the crash test to determine whether there was   | 1    | Q. All right. Did you do you have               |
| 2  | seat deflection in the crash test or how much   | 2    | a photograph or whatever that shows that? Do    |
| 3  | seat deflection per, if there was?              | 3    | you what proof do you have that there was a     |
| 4  | A. Well, if the floor pane moves, it            | 4    | gap between the hatch and the rear seat?        |
| 5  | would be some movement. So maybe I can say      | 5    | A. Well, when we did the slice, there           |
| 6  | there was some movement in the seat. But I      | 6    | was a gap, a space between the hatch and the    |
| 7  | don't remember if there was deflection in the   | 7    | rear seat.                                      |
| 8  | seat relative to the attachment points and      | 8    | Q. Was there a space between the                |
| 9  | whatnot. But it certainly wasn't I mean, in     | 9    | hatch and the rear seat in the subject Escape   |
| 10 | the accident the rear seat is tilted way        | 10   | after the accident?                             |
| 11 | forward. And in the crash test, it's still      | 11   | A. Yes.   |
| 12 | reasonably the same reclined level and that     | 12   | Q. And did you compare the size of              |
| 13 | type of stuff. So the items will speak for      | 13   | that space from the subject accident to         |
| 14 | itself.   | 14   | whatever space that you say existed in the      |
| 15 | But you know, there there probably was          | 15   | crash Escape in the crash test Escape?          |
| 16 | some shifting where the seat is just due to the | 16   | Sorry.  |

19 Okay. Do you have any opinions 20 with regard to whether the crash test could 21 have resulted in injury to Cohen Bryson if he had been in that vehicle at the time of the

A. No, I haven't -- I haven't done

22 mentioned the deformation of the floor pan. Do 22 23 test?

23 you know whether the rear hatch of the Escape

17

18 that.

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17 crush at the floor pan level and other -- other

18 things. Regardless of the reasons why, there

Q. All right. A related question you

19 was less in the crash test than in the

20 accident. And that's what this says.

21

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|--|--|--------------|---|
| 1                                      | Page 158   | 1            | Page 160  |
| $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ | MS. CANNELLA: Objection. Outside   | 1            | the vehicle?  |
| 2                                      | the scope of his expertise and testimony.                                | 2            | A. Right. Put a piece of tape where                                       |
| 3                                      | MR. HILL: Well, that's exactly   | 3            | it's likely to leave a mark or put a piece of                             |
| 4                                      | what I'm trying to establish.  | 4            | tape, you know, so that you get good transfer                             |
| 5                                      | Q. That's outside of your expertise.                                     | 5            | of the color and that type of stuff.                                      |
| 6                                      | Right?   | 6            | Q. Okay.  |
| 7                                      | A. Yes. I'm not talking about  | 7            | A. All kinds of ways to do it. But  |
| 8                                      | injuries in the crash test. No, sir.                                     | 8            | the best is a pointer type device that that                               |
| 9                                      | Q. Right. That's all I was trying to                                     | 9            | leads. Then you can see in the video you'd                                |
| 10                                     | establish is that you're not an expert in                                | 10           | put a target on the Escape. You'd put a                                   |
| 11                                     | biomechanics. And you don't intend to give any                           |              | pointer on the on the F-250. And in the                                   |
| 12                                     | opinions as to whether the intrusion, crush,                             | 12           | video you and it's scale, so when it                                      |
| 13                                     | however you want to describe it that occurred                            | 13           | touches, you know and that's before anything                              |
| 14                                     | in the crash test, would or would not have                               | 14           | else touches. You know exactly the  |
| 15                                     | caused an injury to Cohen Bryson?  | 15           | orientation.  |
| 16                                     | A. Right.  | 16           | Q. Right. Well, item number three   |
| 17                                     | Q. Okay. If we go down in this   | 17           | you talk about Grimes, you know, he testified                             |
| 18                                     | report a little bit let's see here give                                  | 18           | he didn't put the centerline tape on. But you                             |
| 19                                     | me one second. Sorry. Item number two on the                             | 19           | did read Mr. Crosby's deposition, right, where                            |
| 20                                     | page right now, you talk about test did not                              | 20           | he described that it was on the center of the                             |
| 21                                     | provide markers to record what the test vehicle                          | 21           | vehicle?  |
| 22                                     | offset was. What type of markers would you                               | 22           | A. Yes.   |
| 23                                     | have expected to be on the vehicle?                                      | 23           | Q. And you have no reason to dispute                                      |
|  | Page 159   |              | Page 161  |
| 1                                      | A. Crosby describes what he typically                                    | 1            | that the centerline tape was not on the                                   |
| 2                                      | does to document it. He didn't show a photo of                           | 2            | centerline of the test vehicle?   |
| 3                                      | it, but he could have used whatever he used                              | 3            | A. That's agreed.   |
| 4                                      | because I'm sure it would have been good                                 | 4            | Q. Okay. On the next pages, which is                                      |
| 5                                      | enough. In the past we've put a stick or                                 | 5            | bates 9401, the paragraph beginning on based on                           |
| 6                                      | something coming out the front, something that                           | 6            | Grimes's deposition, you make the point that in                           |
| 7                                      | is brittle and will break and, you know, that                            | 7            | your opinion that Mr. Grimes should have                                  |
| 8                                      | will leave a mark. We've we've put paint on                              | 8            | crashed a lifted Escape a lifted truck into                               |
| 9                                      | the vehicles. One of the easiest things to do                            | 9            | an Escape in order to establish the speed of                              |
| 10                                     | is put put marks on the ground so that the                               | 10           | the truck in the accident. Can you explain                                |
| 11                                     | overhead camera and the other cameras can see                            | 11           | that opinion? How could Mr. Grimes have                                   |
| 12                                     | if the vehicle goes along those marks. And if                            | 12           | established the speed of the truck in the                                 |
| 13                                     | it doesn't it can easily tell how far off the                            | 13           | accident by running a crash test with a lifted                            |
| 14                                     | mark it is. So it basically uses a simple                                | 14           | F-250?  |
| 15                                     | series of targets, markers, indentures, paint                            | 15           | A. He gives this is he gives  |
| 16                                     | transfer, things like that. Even tape even                               | 16           | his speed range of 43.9 to into the low 50s                               |
| 17                                     | tape will will transfer so you can tell                                  | 17           | based on potential for braking and whatnot. I                             |
| 1                                      | where it is, any one of those. Or put the                                | 18           | mean, it seems like he's uncertain about the                              |
| 18                                     | where it is, any one of those. Of put the                                |              |   |
|  | cameras where you can do the work.                                       | 19           | speed. If he doesn't know the speed, he ought                             |
| 18                                     | · · · · · · · · · · · · · · · · · · ·                                    |              | speed. If he doesn't know the speed, he ought to establish his own speed. |
| 18<br>19                               | cameras where you can do the work.                                       | 19           |   |
| 18<br>19<br>20                         | cameras where you can do the work.  Q. And when you say tape, you're not | 19<br>20     | to establish his own speed.   |

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|   |    | G. Bryan  | t Bu | July 11, 2024                                   |
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|   |    | Page 162  |      | Page 164  |
|   | 1  | stated that the extremes using the potential    | 1    | He is disadvantaging                            |
|   | 2  | braking at 0.5 seconds would be 43.9 at the     | 2    | Q. And  |
|   | 3  | lowest end if you have assumed full braking     | 3    | A. He   |
|   | 4  | power at exactly 0.5 seconds. And then he had   | 4    | Q. Oh, sorry.                                   |
|   | 5  | a high-end range that would assume that you     | 5    | A. He is disadvantaging the Escape by           |
|   | 6  | didn't have full braking and you had braking    | 6    | a full five miles per hour. So that's what      |
|   | 7  | just minimal right before the impact, and it    | 7    | this is saying here. If if his range was        |
|   | 8  | just provided him a preliminary range depending | 8    | 43.9 to 49.9 or 43.9 to 50 or whatever it is,   |
|   | 9  | upon various hypothetical braking situations.   | 9    | he can't compare a 43.9 mile per accident to a  |
|   | 10 | Is that a fair description of his testimony as  | 10   | 51 mile per hour crash test if he's doing if    |
|   | 11 | you understand it?                              | 11   | he's trying to seek the equation the answer     |
|   | 12 | A. That's a good start for a                    | 12   | he says he's trying to seek which is, as he     |
|   | 13 | conversation. Yes, sir.                         | 13   | says, clearly I'm trying to seek to show that a |
|   | 14 | Q. Right. But we know and you                   | 14   | lifted vehicle doesn't provide more crush than  |
|   | 15 | agree that and he even said he didn't           | 15   | an unlifted vehicle. Well, we use 51 in the     |
|   | 16 | believe that braking occurred. And that he      | 16   | simulation, which is conservatively high        |
|   | 17 | believed that that accident occurred at 50 or   | 17   | because we know the driver was on the brakes.   |
|   | 18 | 51 miles an hour, which is consistent with your | 18   | I think 51 is probably a good number though.    |
|   | 19 | belief as to what the speed of the F-250 was at | 19   | But if his if his opinion is that it may        |
|   | 20 | the time of the impact. Is that correct?        | 20   | have been as slow as 44, then he needs to or    |
|   | 21 | A. I think so. There's a lot in it.             | 21   | 43.9 if he's                                    |
|   | 22 | Can you make sure I've got it all?              | 22   | Q. Did he ever give the opinion                 |
|   | 23 | Q. Sure. Well, we don't have a                  | 23   | A going to compare if he's                      |
| Ī |    | Page 163  |      | Page 165  |
|   | 1  | dispute here. You used 51 miles per hour as     | 1    | going to compare apples and apples, he just     |
|   | 2  | the impact speed in every one of your           | 2    | ought to compare apples and apples.             |
|   | 3  | simulations.                                    | 3    | Q. Did he ever give the opinion that            |
|   | 4  | A. Uh-huh.                                      | 4    | he thought the accident occurred at 44 miles    |
|   | 5  | Q. Correct?                                     | 5    | per hour?                                       |
|   | 6  | A. Yes.   | 6    | A. Well, I thought he said the                  |
|   | 7  | Q. All right. And so you don't have             | 7    | accident may have been as low as 44 based on    |
|   | 8  | any criticism of his using 49.9 in the crash    | 8    | one of his calculations. But you know, if I     |
|   |    |   |      |   |

- one of his calculations. But you know, if I
- misread that, I misread that. 10 Q. Okay. Well, back to my other
- 11 question, and that is about your statement that 12 he could have established the speed of the truck in the accident by crashing a lifted 14 truck. So I don't understand that. How could 15 he establish the speed of the truck in the 16 accident by first testing a lifted truck?
- 17 A. Okay. Well, he's the one trying 18 to compare -- try to say that lifted versus unlifted doesn't matter. The way to do that is you do two tests at the same speed, lifted and 21 unlifted so you only have one variable that's changing, and you can answer that question. 23 He -- he is comparing his crash test to the

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test?

A. I actually -- based on his work,

more crush. If -- if the -- if the vehicle was

case scenario in my simulation. But if his

unlifted truck produces the same amount of

actually what his opinion is -- then he needs

21 according to him the accident was 44 miles an

hour. And is it fair to really compare it to a

opinion is that the lifted truck -- that an

crush as a lifted truck -- or even more is

to make sure he's got the speeds right.

See, because what if the -- what if

23 crash test that he ran at 49.9 miles an hour?

really going 44, then I'm -- I'm using a worst

11 yes. I'm looking -- I'm using 51 and getting

10

14

17

19

20

|                                  | Diyson, Suntana and Josh  |                            |   |
|----------------------------------|---|----------------------------|---|
|                                  | Page 166  |                            | Page 168  |
| 1                                | accident under the belief that he's hitting   | 1                          | show whether or what the difference in crush  |
| 2                                | them at the same speed, which he the way I  | 2                          | would be between the actual accident and your   |
| 3                                | read his work or looked at his work, he didn't  | 3                          | simulation, you have to run them both at the  |
| 4                                | fully establish that.   | 4                          | same speed?   |
| 5                                | Q. So he would not and again, if I  | 5                          | A. Well, not necessarily because  |
| 6                                | understand your answer, it's based upon your  | 6                          | we we we know the driver of the truck was   |
| 7                                | assumption as to the purpose of his test. I'm   | 7                          | on his brakes at impact because I think we have   |
| 8                                | trying to figure out so he couldn't   | 8                          | that indicated. So he's not going to speed up.  |
| 9                                | establish the actual speed that the accident  | 9                          | And when we ran our simulation, when we dropped   |
| 10                               | truck was traveling by running any type of  | 10                         | it, we weren't even close. In other words,  |
| 11                               | test. He can't actually establish that speed?   | 11                         | there was a big discrepancy there in the amount   |
| 12                               | A. Sure, he can. He can if he   | 12                         | of crush. So within the level of braking, all   |
| 13                               | wants to do a crash test with a lifted truck,   | 13                         | that would do is if we reduce the speed   |
| 14                               | he can demonstrate at 51 miles an hour. He can  | 14                         | below 51, that would just reduce the amount of  |
| 15                               | demonstrate that that matches the crash pulses  | 15                         | crush. So it wouldn't change any of my  |
| 16                               | and everything and then he can lower the truck  | 16                         | opinions. My opinions would be my opinions  |
| 17                               | and run the same impact again. And then he'll   | 17                         | are robust. But my opinions are different   |
| 18                               | have a direct comparison as long as he gets the   | 18                         | slightly than his.  |
| 19                               | offset right.   | 19                         | The way he's going about it, his opinion  |
| 20                               | Q. So you're saying that he should  | 20                         | is maybe we just ought to find it in his  |
| 21                               | have run the accident with a lifted truck at 51   | 21                         | depo. I wrote it down where he gives the  |
| 22                               | miles per hour and then compared those results  | 22                         | purpose of it was to show that an unlifted  |
| 23                               | to the black box data in the actual accident.   | 23                         | truck has the that the lift doesn't increase  |
|                                  | Page 167  |                            | Page 169  |
| 1                                | Is that what you're saying?   | 1                          | or decrease or doesn't change the crush on a  |
| 2                                | A. Well, he could have done that to   | 2                          | car. Well, to do that, he's he's got to   |
| 3                                | know the exact speed. But if he if he did   | 3                          | have both pieces of test data to do it. He's  |
| 4                                | both at 51, both the lifted truck and the   | 4                          | only got one.   |
| 5                                | unlifted truck and the only thing he varied was   | 5                          | Q. And that's based upon your   |
| 6                                | the lift, then we would know the effect of the  | 6                          | interpretation or your quote of what he you   |
| 7                                | lift. He says very clearly in his   | 7                          | say he's trying to do?  |
| 8                                | deposition and I'm working off of memory  | 8                          | A. Well, it's let me find the   |
| 9                                | here. But it basically says, hey, I did this  | 9                          | quote. Yes. Yes, you're right. If you don't   |
| 10                               | to show that a lifted truck doesn't do any more   | 10                         | want me to find it, I won't. But yes.   |
| 11                               | damage than an unlifted truck or whatever he  | 11                         | Q. I'm not asking you to find it.   |
| 12                               | said; it doesn't have more crush or and so I  | 12                         | I'm just saying your opinion is based upon that   |
| 12                               |   |                            |   |
| 13                               | remember that quote in there. My words aren't   | 13                         | interpretation of the purpose of the test?  |
| 14                               | remember that quote in there. My words aren't going to be right, but I'm really close.  | 13<br>14                   | interpretation of the purpose of the test?  A. It's based on what he said, yes.   |
|                                  | -   |                            | • •   |
| 14                               | going to be right, but I'm really close.  | 14                         | A. It's based on what he said, yes.   |
| 14<br>15                         | going to be right, but I'm really close. So he's actually in order to do that,  | 14<br>15                   | A. It's based on what he said, yes. I yes.  |
| 14<br>15<br>16                   | going to be right, but I'm really close.  So he's actually in order to do that, he's got to in order to say that an unlifted  | 14<br>15<br>16             | <ul><li>A. It's based on what he said, yes.</li><li>I yes.</li><li>Q. And I think this relates to this</li></ul>  |
| 14<br>15<br>16<br>17             | going to be right, but I'm really close.  So he's actually in order to do that, he's got to in order to say that an unlifted truck produces the same or more crush than a   | 14<br>15<br>16<br>17       | A. It's based on what he said, yes. I yes. Q. And I think this relates to this opinion. And I want to make sure that I  |
| 14<br>15<br>16<br>17<br>18<br>19 | going to be right, but I'm really close.  So he's actually in order to do that, he's got to in order to say that an unlifted truck produces the same or more crush than a lifted truck, he needs to make sure that he's | 14<br>15<br>16<br>17<br>18 | A. It's based on what he said, yes.  I yes.  Q. And I think this relates to this opinion. And I want to make sure that I understand it. The reason that you didn't do |

43 (Pages 166 - 169)

21 to compare it to the black box data is because

23 properly model if it's not a bumper-to-bumper,

22 you don't believe HVE is robust enough to

22

21 offset, he -- he didn't seem to do that.

Q. Wouldn't that same theory apply to

23 your simulation, in order for the simulation to

|  | ·   |   | . Rough Country, ELC  |
|--|---|---|---|
| 1  | Page 170  |   | Page 172  |
| 1  | structure-to-structure accident.  | 1   | A. Yes. That's one of the things.   |
| 2  | A. Okay.  | 2   | Q. Right. And another reason would  |
| 3  | Q. Is that fair?  | 3   | be I want to make sure I understand it is   |
| 4  | A. I heard the last part of your  | _   | that HVE would not be appropriate for a lifted  |
| 5  | question. So I really understand it now. I  | 5   | accident because HVE is designed to study   |
| 6  | think what you're asking is ask it again  | 6   | bumper-to-bumper, structure-to-structure type   |
| 7  | because I'm the first part was confusing,   | 7   | incidents. And that would be another reason   |
| 8  | and the last part I thought clarified it.   | 8   | why you wouldn't use HVE to simulate the actual   |
| 9  | Please ask it again.  | 9   | accident?   |
| 10   | Q. Okay. Sure. The you're saying  | 10  | A. It means you'd have to do some   |
| 11   | that one way that he could compare apples to  | 11  | more work. It doesn't I think that there's  |
| 12   | apples is to first run a lifted test and  |   | justification for trying to use it. But it  |
| 13   | compare the delta-V's and the crush or whatever   |   | would be it would be you would have to  |
| 14   | to the actual accident. And it would tell him   | 14  | start that whole process and do that. And you   |
| 15   | whether he's got the speed right to compare it  | 15  | know, that would that would be a I don't  |
| 16   | to the real accident. Is that is that   | 16  | know what the value would show anyways. I   |
| 17   | that would be one thing you would benefit from  | 17  | don't know what the value would show because we   |
| 18   | by running an actual crash test with a lifted   | 18  | have the we have the accident. But I don't  |
| 19   | vehicle in the same configuration as the actual   | 19  | know I don't know that we could use HVE for   |
| 20   | crash. Right?   | 20  | that, for the subject accident the way it was   |
| 21   | A. Well, you're putting me in an  | 21  | hit.  |
| 22   | equation and the use I'm using his file. He   | 22  | We can use it to study a frame a bumper   |
| 23   | calculated 43.9. If his if the potential  | 23  | level hit. But you would have to do a lot of  |
|  |   |   | ,   |
|  | Page 171  |   | Page 173  |
| 1  | Page 171 accident speed is as low as 44 in his work and   | 1   | Page 173  |
| 1 2  | e   |   | Page 173  |
|  | accident speed is as low as 44 in his work and  | 1   | Page 173<br>work to see if you wanted to or could simulate  |
| 2  | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then   | 1 2   | Page 173<br>work to see if you wanted to or could simulate<br>the actual accident because of the difference   |
| 2 3  | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's   | 1 2 3   | Page 173<br>work to see if you wanted to or could simulate<br>the actual accident because of the difference<br>in elevations. But there's papers out there  |
| 2<br>3<br>4  | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.   | 1<br>2<br>3<br>4  | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it  |
| 2<br>3<br>4<br>5   | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into   | 1<br>2<br>3<br>4<br>5   | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it  |
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| 2<br>3<br>4<br>5<br>6<br>7   | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay.   | 1<br>2<br>3<br>4<br>5<br>6<br>7   | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay. Q. I'm saying that you're critical of   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8  | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the program.  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay.  Q. I'm saying that you're critical of him for not running first a crash with a lifted truck. Right?  A. The way he opines, yes.  Q. Right. And you also didn't run a simulation with a lifted truck in it. Right?  You've never run a simulation with a lifted truck. Correct?  A. That's correct. That's correct.  Q. And I would think there's two reasons. One would be that you don't need it  | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the program.  Q. And you can't cite to me any of those papers that say it would be appropriate to use in a lifted truck situation as we sit here today?  A. No. I'm saying I think he said you could do it. But you couldn't do it in the stock condition. You would have to I mean, stock meaning the default conditions. You would have to start manipulating the program to make it perfect. And we didn't you know,   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18                   | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay. Q. I'm saying that you're critical of him for not running first a crash with a lifted truck. Right?  A. The way he opines, yes. Q. Right. And you also didn't run a simulation with a lifted truck in it. Right? You've never run a simulation with a lifted truck. Correct?  A. That's correct. That's correct. Q. And I would think there's two reasons. One would be that you don't need it because you used 51, which is kind of like the   | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19   | work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the program.  Q. And you can't cite to me any of those papers that say it would be appropriate to use in a lifted truck situation as we sit here today?  A. No. I'm saying I think he said you could do it. But you couldn't do it in the stock condition. You would have to I mean, stock meaning the default conditions. You would have to start manipulating the program to make it perfect. And we didn't you know, that's a whole new problem.  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay. Q. I'm saying that you're critical of him for not running first a crash with a lifted truck. Right?  A. The way he opines, yes. Q. Right. And you also didn't run a simulation with a lifted truck in it. Right? You've never run a simulation with a lifted truck. Correct?  A. That's correct. That's correct. Q. And I would think there's two reasons. One would be that you don't need it because you used 51, which is kind of like the maximum speed in your opinion. So you don't   | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20  | work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the program.  Q. And you can't cite to me any of those papers that say it would be appropriate to use in a lifted truck situation as we sit here today?  A. No. I'm saying I think he said you could do it. But you couldn't do it in the stock condition. You would have to I mean, stock meaning the default conditions. You would have to start manipulating the program to make it perfect. And we didn't you know, that's a whole new problem.  Q. Right. But you can't cite to any   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | accident speed is as low as 44 in his work and then he's going to go crash it at 49.9, then that's then that's not reasonable. That's his work. Not mine.  Q. I'm just I'm not going into that.  A. Okay. Q. I'm saying that you're critical of him for not running first a crash with a lifted truck. Right?  A. The way he opines, yes. Q. Right. And you also didn't run a simulation with a lifted truck in it. Right? You've never run a simulation with a lifted truck. Correct?  A. That's correct. That's correct. Q. And I would think there's two reasons. One would be that you don't need it because you used 51, which is kind of like the maximum speed in your opinion. So you don't need to determine the actual speed because that's worst case scenario or the most | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21                                     | Page 173 work to see if you wanted to or could simulate the actual accident because of the difference in elevations. But there's papers out there that says it's you know, that that it could be done for that. But it's just it wouldn't be I wouldn't use the stock stuff out of the the default stuff out of the program.  Q. And you can't cite to me any of those papers that say it would be appropriate to use in a lifted truck situation as we sit here today?  A. No. I'm saying I think he said you could do it. But you couldn't do it in the stock condition. You would have to I mean, stock meaning the default conditions. You would have to start manipulating the program to make it perfect. And we didn't you know, that's a whole new problem.  Q. Right. But you can't cite to any of those papers that say that? |

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|--|---|----|--|
| 1                                      | Page 174  |    | Page 176   |
| 1                                      | Q. Yeah.  | 1  | You don't  |
| 2                                      | A. But no, I didn't bring those                       | 2  | MR. HILL: Oh, no problem. We can                     |
| 3                                      | papers.   | 3  | take a break at any time.                            |
| 4                                      | Q. All right. Do you know what type                   | 4  | THE WITNESS: Okay. I apologize.                      |
| 5                                      | of modifications you would have to make in            | 5  | MR. HILL: We're getting through                      |
| 6                                      | order to run modifications from the stock             | 6  | it now. We're we're on the same page now.            |
| 7                                      | vehicles in order to run that type of                 | 7  | We're doing better.                                  |
| 8                                      | simulation in HVE?                                    | 8  | THE WITNESS: Okay. I agree.                          |
| 9                                      | A. I used the word stock. That was                    | 9  | THE VIDEOGRAPHER: The time is                        |
| 10                                     | my mistake. Default. Yeah, you're now                 | 10 | 1:57 p.m. We are off the video record.               |
| 11                                     | you're that would take some real work to do.          | 11 | (A break was taken.)                                 |
| 12                                     | Q. Right.   | 12 | THE VIDEOGRAPHER: The time is                        |
| 13                                     | A. But I don't you know, as I sit                     | 13 | 2:07 p.m. We are back on the video record.           |
| 14                                     | here, I'm not I'm not saying you can do it.           | 14 | Q. (Mr. Hill) All right. Moving                      |
| 15                                     | I'm not saying absolutely the papers say you          | 15 | ahead to the offset portion of your what did         |
| 16                                     | can do it. I'm saying I think there's papers          | 16 | you call it again rebuttal report. All               |
| 17                                     | out there that indicate it can be done. But it        | 17 | right. So that I can understand this, you            |
| 18                                     | would not it would be it would be quite               | 18 | indicate that you used three methods to              |
| 19                                     | an effort.  | 19 | determine the offset in the crash. Two of them       |
| 20                                     | Q. Would do you would you know                        | 20 | are based upon the Ford logo imprints, and one       |
| 21                                     | how to do it?   | 21 | of them is based on the crash testing. Is that       |
| 22                                     | A. I'm actually sure that if it could                 | 22 | fair? Is that correct?                               |
| 23                                     | be done, I could. But I'm not I don't know            | 23 | A. Those are the three methods that                  |
|  |   |    |  |
| 1                                      | Page 175 that it can be done. I mean, in other words, | 1  | Page 177 we did independent of Grimes's work. Grimes |
| _                                      | it's not it's just a it's just a physics              | 2  | actually has work that shows the offset as           |
| $\begin{vmatrix} 2 \\ 3 \end{vmatrix}$ | problem. But I don't know I mean, I think             | 3  | well. It doesn't require any rebuttal. It            |
| 3                                      | I'm but that work hasn't been done, just              |    |  |
| 4 5                                    | · ·   | 5  | just requires showing it. So yes, as far as          |
| 5                                      | like the other thing you asked me about. I            | -  | our work, that's what this shows.                    |
| 6                                      | 2 2   | 6  | Q. And I was just reading straight                   |
| /                                      | Q. Yeah. I'm not talking about                        | /  | from the paragraphs here that begins with of         |
| 8                                      | how I'm just saying do you know how to do it          | l  | the three methods.                                   |
| 9                                      | without having to                                     | 9  | A. Yeah.   |
| 10                                     | A. Well, it hasn't it hasn't been                     | 10 | Q. Yeah.   |
| 11                                     | done yet. So I can't say I know how to do it.         | 11 | A. I'm clarifying to make sure that                  |
| 12                                     | Q. Okay. Would it involve modifying                   | 12 | everything is understood.                            |
| 13                                     | the stiffness coefficient for the different           | 13 | Q. Right. And the first method                       |
| 14                                     | areas of the rear of the Escape, meaning you'd        | 14 | involves producing a photomodel of the test          |
| 15                                     | have to input a different stiffness coefficient       | 15 | vehicle and the accident vehicle, using a photo      |
| 16                                     | for the rear hatch versus the window versus the       | 16 | where the logo imprint is visible. And then          |
| 17                                     | bumper? Is that kind of the process it would          | 17 | you show in figure 3A a crash test photo of          |
| 18                                     | take?   | 18 | with a yellow line around the logo area the          |
| 19                                     | A. I don't know. I'd have to I                        | 19 | logo imprint area. Is that fair?                     |
| 20                                     | haven't done it yet.                                  | 20 | A. Yes.  |
| 21                                     | Q. All right.   | 21 | Q. And while Ms. Cannella was                        |
| 22                                     | THE WITNESS: I do hate to ask,                        | 22 | mentioning exhibits, I would like to attach          |
| 23                                     | but I need to run down the hall and run back.         | 23 | and I should have done this at the beginning         |

45 (Pages 174 - 177)

|   | Bryson, Santana and Josh   |   | . Hough Country, 220  |
|---|--|---|---|
|   | Page 178   |   | Page 180  |
| 1   | as I think Exhibit 2 this June 14, 2024  | 1   | tow hooks, there are other items that stuck out   |
| 2   | rebuttal report.   | 2   | farther than the logo on the front rail?  |
| 3   | All right. And then figure 3B is from Jeff   | 3   | A. Forgive me. I was answering with   |
| 4   | Kidd's inspection after the incident where   | 4   | respect to the accident. You may have asked   |
| 5   | again you've sort of outlined what you believe   | 5   | about the test. I I don't know. I mean  |
| 6   | shows the logo imprint from the Ford logo on   | 6   | Q. I started with the accident. But   |
| 7   | the F-250?   | 7   | wouldn't the same thing be true of the crash  |
| 8   | (Defendant's Exhibit Number 2  | 8   | test?   |
| 9   | is marked for identification.)   | 9   | A. Well, the crash test is a little   |
| 10  | A. Yes.  | 10  | further because you've actually got bumper to   |
| 11  | Q. All right. And figure four is   | 11  | bumper.   |
| 12  | where you used photomodels where you and   | 12  | Q. Right.   |
| 13  | correct me if I'm wrong. You indicate a point  | 13  | A. But in the accident in the   |
| 14  | on the photo, and then the PhotoModeler uses   | 14  | accident you're I mean, you're not hitting  |
| 15  | its magic to determine a 3D distance between   | 15  | bumper to bumper, so the logo is is, you  |
| 16  | those two points?  | 16  | know, twice as close let's put it that  |
| 17  | A. Yes.  | 17  | way as in the test. Thanks.   |
| 18  | Q. Okay. And so the distance it  | 18  | Q. Right. But either way though,  |
| 19  | calculates depends upon the start and endpoints  | 19  | it's the logo is not the first thing to   |
| 20  | that you indicate on the photo?  | 20  | impact the Escape?  |
| 21  | A. Right.  | 21  | A. Yes.   |
| 22  | Q. Okay. And figure 5B, same thing,  | 22  | Q. That's all I was trying to   |
| 23  | that's PhotoModeler Premium showing the  | 23  | establish.  |
|   |  |   |   |
| 23  | <del>-</del>   | 23  |   |
|   | Page 179   |   | Page 181  |
| 1   | Page 179 distance between the two points that you marked   | 1   | Page 181 A. Right.  |
| 1 2   | Page 179 distance between the two points that you marked on the test Escape.   | 1 2   | A. Right. Q. And the logo itself is is not  |
| 1 2 3   | Page 179 distance between the two points that you marked on the test Escape. A. Yes.   | 1<br>2<br>3   | A. Right. Q. And the logo itself is is not flat. Do you agree with that?  |
| 1<br>2<br>3<br>4  | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct?  | 1<br>2<br>3<br>4  | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to   |
| 1<br>2<br>3<br>4<br>5   | Page 179 distance between the two points that you marked on the test Escape. A. Yes. Q. Is that correct? A. Yes.   | 1<br>2<br>3<br>4<br>5   | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it.   |
| 1<br>2<br>3<br>4<br>5<br>6  | Page 179 distance between the two points that you marked on the test Escape. A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you  | 1<br>2<br>3<br>4  | Page 181  A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right.  |
| 1<br>2<br>3<br>4<br>5<br>6<br>7   | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the  | 1<br>2<br>3<br>4<br>5<br>6<br>7   | Page 181  A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going  |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8  | Page 179 distance between the two points that you marked on the test Escape. A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the subject Escape and the crash Escape. Those  | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8  | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going to stick out a little bit more than the edges?   |
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| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9                                     | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the subject Escape and the crash Escape. Those measurements are dependent upon the points you indicate you want the software to measure to   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going to stick out a little bit more than the edges? A. Correct. Q. Right. And so if you look at   |
| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10                               | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the subject Escape and the crash Escape. Those measurements are dependent upon the points you indicate you want the software to measure to and from?   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going to stick out a little bit more than the edges? A. Correct. Q. Right. And so if you look at I'll use one of your photos here if I can find  |
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| 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10                               | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the subject Escape and the crash Escape. Those measurements are dependent upon the points you indicate you want the software to measure to and from?  A. Correct. Q. Okay. Now, the Ford logo on the   | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going to stick out a little bit more than the edges? A. Correct. Q. Right. And so if you look at I'll use one of your photos here if I can find one that's clear. I don't seem to have a large picture.  |
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| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20                            | Page 179 distance between the two points that you marked on the test Escape.  A. Yes. Q. Is that correct? A. Yes. Q. And again, that's figure, you know, 5A and 5B showing those distances on the subject Escape and the crash Escape. Those measurements are dependent upon the points you indicate you want the software to measure to and from?  A. Correct. Q. Okay. Now, the Ford logo on the F-250, you would agree, was not the first part of the F-250 to impact the Escape in the subject accident?  A. I do. It was really, really it was really, really close though because, you know Q. Yeah. | 1<br>2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | A. Right. Q. And the logo itself is is not flat. Do you agree with that? A. Yeah. It's got a little convex to it. Q. Right. It's a little right. So the like the center of the logo is going to stick out a little bit more than the edges? A. Correct. Q. Right. And so if you look at I'll use one of your photos here if I can find one that's clear. I don't seem to have a large picture. A. We do. There you go. Q. This is the logo on the Escape, which you agree is a different size than the logo on the F-250? A. It is. Q. But it has the similar concave shape or convex shape you just mentioned. |

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| Page 184   |    | Bryson, Santana and Joshi                      | ia v | . Rough Country, LLC                            |
|--|----|--|------|---|
| 2 asking you to be exact. But they're towards 3 the middle of the logo? 4 A. Yes. 5 Q. And so they would be sticking out 6 more than the edges of the logo? 7 A. At first contact, yes. 8 Q. Yes. Sure. All right. Basically 9 the closer you get to the center of the logo, 10 the more convex the logo is. Is that true? 11 A. I think I know what you mean. 12 Yes. 13 Q. Okay. All right. Let me stop 14 sharing for a second and see if I can find 15 something here. 16 MR. HILL: Okay. We need to take 17 like a one-minute break. Don't leave your 18 seat. I just - I'm having some technical 19 difficulties accepting my files. Can we just 20 go off the record for it won't take more 21 than a minute. 22 THE WITNESS: That will work. 23 THE VIDEOGRAPHER: The time is 4 2:18 p.m. We're off the video record. 4 (A break was taken.) 3 THE VIDEOGRAPHER: The time is 4 2:18 p.m. We're back on the video record. 6 (A break was taken.) 7 page 9404 of your rebuttal report. And it is a 8 photograph of the test Escape after the test. Correct? 10 A. Yes, sir. 11 Q. And can you see on this photo, can 12 you point out where the imprint of the D is 13 from the Ford logo? 4 A. A is always the easiest to find. 5 Q. The what? I'm sorry. 6 A. The A is the casiest to see 8 D the D is kind of off on the edge. The A 9 sticks out. The A and the R stick out the 10 furthest. But we have a part of what I sent 11 you was an overlay of the Ford emblem on top of this 12 this. 13 Q. I'm confused about the A. What 14 do you mean the O? 15 A. Yesh. I'm sorry. 16 A. The A is always the casiest to find. 9 D. The what? I'm sorry. 16 A. The A is the casiest to see 10 because visg of a little tail on it. So the 11 you was an overlay of the Ford emblem on top of the that 12 you was an overlay of the Ford emblem on top of the tast 13 Q. I'm confused about the A. What 14 do you mean the O? 15 A. Yesh. I'm sorry. The O, it's got a latil on it. Is a photograph of the video record. 16 A. The A is the casiest to see 19 D I'm an engineer - I'm an engineer on              |    | Page 182                                       |      | Page 184  |
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| 9 Correct? 10 A. Yes, sir. 11 Q. And can you see on this photo, can 12 you point out where the imprint of the D is 13 from the Ford logo? 14 A. I don't know that I it would be 15 on the left side if it was there. I'm not a 16 hundred percent sure it's there. 17 Q. So in analyzing this logo, you  9 MS. CANNELLA: Yeah. 10 A. It's in the in the PowerPoint 11 we sent, there's an overlay on top of it that 12 we sent. But if you'll go back to that image, 13 it was just you're doing the image we had 14 up, the left edge is very visible. And so we 15 used the left edge of the emblem over there 16 because you can see where it comes to a point 17 at the edge of the oval. And so we were able  | 7  | page 9404 of your rebuttal report. And it is a | 7    | MR. HILL: I'm talking about the                 |
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| 17 Q. So in analyzing this logo, you 17 at the edge of the oval. And so we were able   | 15 | on the left side if it was there. I'm not a    | 15   | used the left edge of the emblem over there     |
| 17 Q. So in analyzing this logo, you 17 at the edge of the oval. And so we were able   | 16 | hundred percent sure it's there.               | 16   | because you can see where it comes to a point   |
|  | 17 | -  | 17   | -   |
|  | 18 | didn't look for or notice the imprints of the  | 18   | to measure to that point between the crash test |
| 19 letters from the word Ford on on the Escape? 19 vehicle and the accident vehicle because the  |    | _  |      | -   |
| 20 A. Well, no. There are some. But I 20 letters are a little smeared and somebody might   | 20 | _  | 20   | letters are a little smeared and somebody might |
| 21 don't know that the D showed up looking at it 21 have a different interpretation as to what   |    |  |      | · · · · · · · · · · · · · · · · · · ·           |
| 22 on that particular slide. Let me see. 22 letter is what letter. But yes, I have   | 22 |  | 22   | -   |
| Q. Did you, in reviewing any of the 23 overlaid them, and I have looked at them. And   | 23 | _  |      | -   |

47 (Pages 182 - 185)

|  | Bryson, Santana and Joshi  |  | ,, , == -   |
|--|--|--|---|
|  | Page 186   |  | Page 188  |
| 1  | it's in my PowerPoint.   | 1  | part of the O with your hand right now.   |
| 2  | Q. Let me see here. I've found what  | 2  | Q. Okay.  |
| 3  | I think you were talking about.  | 3  | MR. HILL: Do y'all know how to  |
| 4  | A. All right.  | 4  | write on this?  |
| 5  | Q. This is from your PowerPoint,   | 5  | A. Yeah. But it won't come off my   |
| 6  | which we'll I'll go back up. We'll mark  | 6  | computer screen. I'm sorry. That was a joke.  |
| 7  | this as Exhibit 3. This is the PowerPoint you  | 7  | I'm sorry. Jokes don't come off. I don't know   |
| 8  | were referencing with the crash test offset?   | 8  | how to write on that.   |
| 9  | (Defendant's Exhibit Number 3  | 9  | MR. HILL: Tedra, do you know how  |
| 10   | is marked for identification.)   | 10   | to mark on this? I guess not.   |
| 11   | A. Yes.  | 11   | Q. All right. But anyways   |
| 12   | Q. All right. And so if you could go   | 12   | A. Hey, if you go down in the   |
| 13   | down here, here are photographs of the back of   | 13   | slide   |
| 14   | the subject Escape and the crash test Escape.  | 14   | Q. Right.   |
| 15   | And I think what you're saying here is that in   | 15   | A a few slides, it will it  |
| 16   | analyzing the position of the crash test Escape  | 16   | will show an overlay, I believe. It's above   |
| 17   | logo imprint that you used what you perceive as  | 17   | that.   |
| 18   | the edge of the logo, you didn't reference any   | 18   | Q. All right. Well, let's look at   |
| 19   | imprints on the letters in the word Ford?  | 19   | this picture here. This is on page 9459. And  |
| 20   | A. Right. But we did provide visual  | 20   | this shows you indicating that your belief that   |
| 21   | aid so people could understand it.   | 21   | the Ford logo edge is over here at the far left   |
| 22   | Q. Right. And I'm going to go down   | 22   | of the pink line above the edge of the S in   |
| 23   | to that.   | 23   | Escape?   |
|  | Page 187   |  | <b>D</b> 100  |
|  | E  |  | Page 189  |
| 1  | A. Okay.   | 1  | A. Correct.   |
| 1 2  | <ul><li>A. Okay.</li><li>Q. But is it your testimony that in</li></ul>   | 2  | <ul><li>A. Correct.</li><li>Q. And that's the reference point you</li></ul>   |
|  | <ul><li>A. Okay.</li><li>Q. But is it your testimony that in this photo right here, that you're not able to</li></ul>  | 2 3  | A. Correct. Q. And that's the reference point you used to determine where the logo impacted the   |
| 2<br>3<br>4  | A. Okay. Q. But is it your testimony that in this photo right here, that you're not able to see the image of any of the letters in the word  | 2<br>3<br>4  | A. Correct. Q. And that's the reference point you used to determine where the logo impacted the crash Escape?   |
| 2<br>3<br>4<br>5   | A. Okay. Q. But is it your testimony that in this photo right here, that you're not able to see the image of any of the letters in the word Ford?  | 2<br>3<br>4<br>5   | <ul><li>A. Correct.</li><li>Q. And that's the reference point you used to determine where the logo impacted the crash Escape?</li><li>A. For this particular method, yes.</li></ul>   |
| 2<br>3<br>4  | A. Okay. Q. But is it your testimony that in this photo right here, that you're not able to see the image of any of the letters in the word Ford? A. No. You can see the O and the R.  | 2<br>3<br>4<br>5<br>6  | <ul> <li>A. Correct.</li> <li>Q. And that's the reference point you used to determine where the logo impacted the crash Escape?</li> <li>A. For this particular method, yes.</li> <li>Q. Right. And so your reference</li> </ul>  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19       | A. Okay. Q. But is it your testimony that in this photo right here, that you're not able to see the image of any of the letters in the word Ford? A. No. You can see the O and the R. You know, we know where the D is, but I can't say we can see the D. But the O is the best one. Q. Can you in some way if I give you the screen, can you point to where you can see the O on this image that I have up on the screen? A. Yes. I can tell you where it is. Q. All right. A. If you see the Escape emblem at the bottom Q. Uh-huh. A the Escape XLT, from the right   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | A. Correct. Q. And that's the reference point you used to determine where the logo impacted the crash Escape? A. For this particular method, yes. Q. Right. And so your reference point is not from any of the letters; it's from what you believe to be the edge? A. Yes. Q. Okay. And there's what you're talking about as your overlay? A. Right. Q. Right? A. It needs it needs to be tweaked a little bit. But it's just for visual explanation, yes. Q. Right. And again, you're not matching up the letters here. You're matching up the logo with what you believe to be the                              |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19       | A. Okay. Q. But is it your testimony that in this photo right here, that you're not able to see the image of any of the letters in the word Ford? A. No. You can see the O and the R. You know, we know where the D is, but I can't say we can see the D. But the O is the best one. Q. Can you in some way if I give you the screen, can you point to where you can see the O on this image that I have up on the screen? A. Yes. I can tell you where it is. Q. All right. A. If you see the Escape emblem at the bottom Q. Uh-huh. A the Escape XLT, from the right   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | A. Correct. Q. And that's the reference point you used to determine where the logo impacted the crash Escape? A. For this particular method, yes. Q. Right. And so your reference point is not from any of the letters; it's from what you believe to be the edge? A. Yes. Q. Okay. And there's what you're talking about as your overlay? A. Right. Q. Right? A. It needs it needs to be tweaked a little bit. But it's just for visual explanation, yes. Q. Right. And again, you're not matching up the letters here. You're matching up the logo with what you believe to be the                              |

48 (Pages 186 - 189)

23 the imprints of the word Ford as your reference

23 Right there. You're -- you're covering the

|  | Bryson, Santana and Joshua v. Rough Country, LLC  |  |   |  |
|--|---|--|---|--|
|  | Page 190  |  | Page 192  |  |
| 1  | point?  | 1  | the overlay we showed you a minute ago just to  |  |
| 2  | A. No. We always use the center of  | 2  | give perspective. No, sir.  |  |
| 3  | the logo or the edge of the logo.   | 3  | Q. All right. But the overlay was   |  |
| 4  | Q. Right. But you couldn't  | 4  | based on your belief of the location of the   |  |
| 5  | compare you don't know where the center of  | 5  | edge, not the location of any of the letters.   |  |
| 6  | the logo is in this instance. Correct?  | 6  | Right?  |  |
| 7  | A. Well, in this one, no. But in  | 7  | A. Well, you you keep using the   |  |
| 8  | others, we do. But yeah, in this one, no. So  | 8  | edge. And I heard that a long time ago, and I   |  |
| 9  | that's why we use the edge because we know  | 9  | thought what does he really mean by edge.   |  |
|  | -   |  |   |  |
| 10   | where the edge is of that logo. And of the  | 10   | There's some marks on the outside of the logo   |  |
| 11   | Escape logo, we know where the center is.   | 11   | that are in an oval.  |  |
| 12   | Q. Right. And so when you say in  | 12   | Q. Right.   |  |
| 13   | this one, you mean in this case. Like you   | 13   | A. We're using that mark there as if  |  |
| 14   | don't you didn't use the center of the logo   | 14   | it's the edge. If it's really not on the edge,  |  |
| 15   | at all in this case. You just used what you   | 15   | then the measurement gets a little bit bigger   |  |
| 16   | believe to be the left edge?  | 16   | than what we get. So we're trying to do   |  |
| 17   | A. In Grimes's work that he provided  | 17   | something that's conservative. And we're  |  |
| 18   | in his file, you can see the center of the  | 18   | trying to do something that's repeatable and  |  |
| 19   | logo. We use the center of the logo versus the  | 19   | something that's not up to interpretation as to   |  |
| 20   | center of the logo on his. But when we were   | 20   | what letter you're looking at.  |  |
| 21   | using the stamp marks, we went to the edge of   | 21   | We think that that green arc up there can   |  |
| 22   | the stamp because that's what we thought was  | 22   | only be the edge or something inboard of the  |  |
| 23   | the most reliable for comparison purposes.  | 23   | edge of the logo. So that's what we used  |  |
|  |   |  |   |  |
|  |   |  | Page 102  |  |
| 1  | Page 191  | 1  | Page 193  |  |
| 1 2  | Page 191 Q. Well, the difference from the end   | 1  | because we think it's reproducible, repeatable,   |  |
| 2  | Q. Well, the difference from the end of the D in the word Ford and the edge of the  | 2  | because we think it's reproducible, repeatable,<br>and really doesn't you know, isn't subject   |  |
| 2 3  | Q. Well, the difference from the end of the D in the word Ford and the edge of the logo is a known distance. Right? I mean,   | 2 3  | because we think it's reproducible, repeatable,<br>and really doesn't you know, isn't subject<br>to interpretation. If someone wants to use the   |  |
| 2<br>3<br>4  | Q. Well, the difference from the end of the D in the word Ford and the edge of the logo is a known distance. Right? I mean, that's something that can be measured. Do you   | 2<br>3<br>4  | because we think it's reproducible, repeatable,<br>and really doesn't you know, isn't subject<br>to interpretation. If someone wants to use the<br>letters, that's fine. We didn't use the  |  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | Q. Well, the difference from the end of the D in the word Ford and the edge of the logo is a known distance. Right? I mean, that's something that can be measured. Do you agree with that?  A. Not in this photo because you can't don't really know where the D is.  Q. All right. So but I'm saying in general, you could measure we know the distance between a point on the D and the edge of the logo. That could be measured?  A. If you're just asking can somebody take a logo and measure the distances on the logo itself, absolutely. A hundred percent.  Q. Right. Right. And so you didn't attempt to measure what you believed to be the edge of the logo in connection with any of the imprints of the letter Ford. Did you did you undertake an effort to verify whether this   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | because we think it's reproducible, repeatable, and really doesn't you know, isn't subject to interpretation. If someone wants to use the letters, that's fine. We didn't use the letters though.  Q. And that's all I'm trying to establish is that all of your measurements are dependent upon this green arc here being the edge or slightly inside the edge of the logo?  A. Thank you. Yes, sir.  Q. Okay. And the same I guess here's a picture of the accident Escape. And you have red markings here. This is 9454. Explain you've got what appears to be a similar mark on what would be the edge of the logo. But then you also have some marks that it looks like would be the letters of the logo. Is that right? Or what do the lines represent on this page?  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | Q. Well, the difference from the end of the D in the word Ford and the edge of the logo is a known distance. Right? I mean, that's something that can be measured. Do you agree with that?  A. Not in this photo because you can't don't really know where the D is.  Q. All right. So but I'm saying in general, you could measure we know the distance between a point on the D and the edge of the logo. That could be measured?  A. If you're just asking can somebody take a logo and measure the distances on the logo itself, absolutely. A hundred percent.  Q. Right. Right. And so you didn't attempt to measure what you believed to be the edge of the logo in connection with any of the imprints of the letter Ford. Did you did you undertake an effort to verify whether this edge is the proper distance from any of the | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | because we think it's reproducible, repeatable, and really doesn't you know, isn't subject to interpretation. If someone wants to use the letters, that's fine. We didn't use the letters though.  Q. And that's all I'm trying to establish is that all of your measurements are dependent upon this green arc here being the edge or slightly inside the edge of the logo?  A. Thank you. Yes, sir.  Q. Okay. And the same I guess here's a picture of the accident Escape. And you have red markings here. This is 9454. Explain you've got what appears to be a similar mark on what would be the edge of the logo. But then you also have some marks that it looks like would be the letters of the logo. Is that right? Or what do the lines represent on this page?  A. Well, I think that the F and the O |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19       | Q. Well, the difference from the end of the D in the word Ford and the edge of the logo is a known distance. Right? I mean, that's something that can be measured. Do you agree with that?  A. Not in this photo because you can't don't really know where the D is.  Q. All right. So but I'm saying in general, you could measure we know the distance between a point on the D and the edge of the logo. That could be measured?  A. If you're just asking can somebody take a logo and measure the distances on the logo itself, absolutely. A hundred percent.  Q. Right. Right. And so you didn't attempt to measure what you believed to be the edge of the logo in connection with any of the imprints of the letter Ford. Did you did you undertake an effort to verify whether this   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | because we think it's reproducible, repeatable, and really doesn't you know, isn't subject to interpretation. If someone wants to use the letters, that's fine. We didn't use the letters though.  Q. And that's all I'm trying to establish is that all of your measurements are dependent upon this green arc here being the edge or slightly inside the edge of the logo?  A. Thank you. Yes, sir.  Q. Okay. And the same I guess here's a picture of the accident Escape. And you have red markings here. This is 9454. Explain you've got what appears to be a similar mark on what would be the edge of the logo. But then you also have some marks that it looks like would be the letters of the logo. Is that right? Or what do the lines represent on this page?  |  |

49 (Pages 190 - 193)

23 different ways. Here we added those. I think

Nothing -- no. Nothing more than

23

|    | Bryson, Santana and Joshua V. Rough Country, LLC |    |   |  |
|----|--|----|---|--|
|    | Page 194   |    | Page 196  |  |
| 1  | there's an overlay of that logo somewhere else   | 1  | doesn't cause everything to crash.              |  |
| 2  | in this same PowerPoint. But there we are        | 2  | All right. Can you see that this is from        |  |
| 3  | marking some letters. But we're still not        | 3  | your rebuttal report, figure 3A on the screen?  |  |
| 4  | using those letters other than for our           | 4  | A. Yes.   |  |
| 5  | understanding.                                   | 5  | Q. Okay. Great. And we're talking               |  |
| 6  | Q. Okay. So even in this instance,               | 6  | about this marking here above the E that you    |  |
| 7  | you didn't use the letters to perform the        | 7  | believe is the O in Ford. Is that correct?      |  |
| 8  | overlay. You used the markings of what you       | 8  | A. No. I was talking about the one              |  |
| 9  | perceive are the edge of the logo?               | 9  | just above that.                                |  |
| 10 | A. Right. You've actually presented              | 10 | Q. Where?                                       |  |
| 11 | my PowerPoint, not in the order we did it. We    | 11 | A. Right there. Left a little.                  |  |
| 12 | started with something to help everyone          | 12 | Right there.                                    |  |
| 13 | visualize the logo on the blue vehicle, and      | 13 | Q. Right there (indicating)?                    |  |
| 14 | then we ended with the silver vehicle or the     | 14 | A. That is an O in Ford, yes.                   |  |
| 15 | gold vehicle, whichever one it is. So yeah,      | 15 | Q. Okay. And if someone were to have            |  |
| 16 | that's all we're doing is we're trying to give   | 16 | the opinion that that is the curve in the D     |  |
| 17 | context so that people can see that that is a    | 17 | you can see the shape of the D right here       |  |
| 18 | Ford logo stamp mark for that, for those images  | 18 | A. Right.                                       |  |
| 19 | you're showing. And then later on we show the    | 19 | Q not the O, that would change                  |  |
| 20 | measurements.                                    | 20 | the location of the overlay of the logo.        |  |
| 21 | Q. Right. All right. I didn't mean               | 21 | Correct?  |  |
| 22 | to take it out of order. I'm just trying to      | 22 | A. If someone has a different opinion           |  |
| 23 | understand it and make sure I understand the     | 23 | of a different impact point, it would change    |  |
|    | Page 195   |    | Page 197  |  |
| 1  | reference point. And in both cases the           | 1  | the overlay, yes. But there's a lot of reasons  |  |
| 2  | reference point is, based on this overlay, what  | 2  | why that's not true.                            |  |
| 3  | is perceived as the edge or just inside the      | 3  | Q. All right. And what are the                  |  |
| 4  | edge of the logo?                                | 4  | reasons that that is not the D and has to be    |  |
| 5  | A. Yes. For those measurements.                  | 5  | the O?  |  |
| 6  | Q. All right. And they're not                    | 6  | A. Well, you see the to the left                |  |
| 7  | dependent upon the imprint of the letters?       | 7  | over there you have the edge that we've already |  |
| 8  | A. Correct. For that for those                   | 8  | talked about. But in the lower right, you can   |  |
| 9  | measurements.                                    | 9  | see the tow hook, which is the first thing to   |  |
| 10 | Q. Okay. All right. My screen froze              | 10 | hit. And it's under it's it's we                |  |
| 11 | again.   | 11 | we deal with that in a minute in the PowerPoint |  |
| 12 | MR. HILL: Can y'all I hate to                    | 12 | where the tow hook has also been shifted left   |  |
| 13 | do this, but can y'all give me like a            | 13 | considerably. So I mean, that that's why        |  |
| 14 | five-minute break so I can if I can get this     | 14 | you don't use the letters because there can be  |  |
| 15 | fixed, then I won't hold it up, and it will go   | 15 | different interpretations with the curves.      |  |
| 16 | much faster.                                     | 16 | They're all curves. But it wouldn't fit with    |  |
| 17 | THE VIDEOGRAPHER: The time is                    | 17 | the rest of the damage on the vehicle if that   |  |
| 18 | 2:33 p.m. We're off the video record.            | 18 | were true. So you can have the opinion. It      |  |
| 19 | (A break was taken.)                             | 19 | will change it if you move it, but it won't     |  |
| 20 | THE VIDEOGRAPHER: The time is                    | 20 | change my opinion because I think there's too   |  |
| 21 | 2:56 p.m. We are back on video record.           | 21 | many other factors.                             |  |
| 22 | Q. (Mr. Hill) All right. I'm going               | 22 | Q. Have you determined or measured              |  |
| 23 | to begin to share my screen. And I hope it       | 23 | the distance from the edge here that you say,   |  |

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|    | G. Bryant                                       |      | •   |
|----|---|------|---|
|    | Bryson, Santana and Joshu                       | ıa v | . Rough Country, LLC                            |
|    | Page 198  |      | Page 200  |
| 1  | the edge of the logo, to where you say the tow  | 1    | and we'll get to that in a second 9406          |
| 2  | hook is to verify whether that's the proper     | 2    | figure 5B, the left side photograph is the      |
| 3  | distance between the tow hook and the edge of   | 3    | crash test Escape after the test obviously.     |
| 4  | the logo?                                       | 4    | Correct?  |
| 5  | A. Yeah. I did look at that, yes.               | 5    | A. Yes.   |
| 6  | Not so much in distance, but Grimes did this    | 6    | Q. And did you notice that the Ford             |
| 7  | Grimes lined up the tow hook in that hole there | 7    | emblem on the Escape is not lined up with the   |
| 8  | and he got the Escape logo to hit where I'm     | 8    | center line tape on the roof of the vehicle?    |
| 9  | saying it hit and not where you said it just    | 9    | A. Well, that's the beauty of it is             |
| 10 | hit. That's in that's in his file. I don't      | 10   | the before the vehicle crushed to where it      |
| 11 | know if he knows it's in his file, but it's in  | 11   | is now, the two logos already hit. In other     |
| 12 | his file. I looked at his work that's in his    | 12   | words, the logos are hitting very quickly and   |
| 13 | file that that shows where it matched.          | 13   | they're comparative. From the two crashes       |
| 14 | Q. What specifically in his file                | 14   | whatever you know, they they hit and the        |
| 15 | matches the overlay of the logo from the Ford   | 15   | logos left their stamp marks. So if the test    |
| 16 | with where you say the left edge of the logo    | 16   | is actually representative of the accident,     |
| 17 | hit? What specifically in his file matches      | 17   | then of course the the logo should be in the    |
| 18 | that?   | 18   | same place except for vertically. But they're   |
| 19 | A. He's got a scan of the two                   | 19   | not. They're off vertically, you know, and      |
| 20 | vehicles that he it looks like he colorized     | 20   | laterally.                                      |
| 21 | and and made 3D models of a mesh, and           | 21   | Q. Well, the the actual crash you               |
| 22 | then we'll just call it a scan, a 3D point      | 22   | have a different endpoint impact point          |
| 23 | cloud of the two vehicles fit together at       | 23   | vertically on the Escape. So I don't            |
|    | Page 199  |      | Page 201  |
| 1  | maximum engagement. And they're they're fit     | 1    | understand your your point. You're              |
| 2  | together at maximum engagement with 16 inches   | 2    | you're going to have a different crush pattern  |
| 3  | between the Ford logo on the Escape and the     | 3    | between the subject accident and the crash test |
| 4  | Ford logo on the front of the truck. That's it  | 4    | regardless because they're impacting at         |
| 5  | the only place he actually shows those logos    | 5    | different points on the back of the Escape.     |
| 6  | and things. And they match exactly what I'm     | 6    | A. Well, that's the point. You can              |
| 7  | showing you here with our work. Remember we     | 7    | see the change of height, you know, which we    |
| 8  | had four to six inches with with a probable     | 8    | all know is supposed to be there. But there     |
| 9  | five. He just gives it, you know, five exactly  | 9    | should be alignment the logo should be in       |
| 10 | in his work. And I have a PowerPoint of that    | 10   | the same place, and it's it's way off. I        |
| 11 | in this folder.                                 | 11   | mean, because this is one of the earliest       |
| 12 | Q. All right. Is that part of this              | 12   | things that contacted. And this truck is, you   |
| 13 | report or is that separate?                     | 13   | know, how many thousand pounds. You can't get   |

14 A. It's not part of the report

15 just -- because it's just -- it's just using

16 his work. Before we could use his work, we --

17 we did all of our work independently from the

18 raw data that happens to match his data. So

19 it's the five inches that I gave as my opinion 20 as -- as a composite of his file and my file,

21 and -- and the models that we built from his

22 file.

23 Q. All right. Looking now at page -- 14 this truck to move over in that amount of time.

15 You're talking almost -- we're talking about 75

16 feet per second. You're talking about moving a

17 foot. You're talking about a 75th of a second

18 until this thing hits. You know, as an

19 approximation, you know, that's -- that's

20 before -- I mean, that's -- that's a very small

21 amount of time to do that, 75, 1 over X, that's

22 a hundredth of a second approximately if you

23 round it. And we're -- so we're usually

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|   |    | G. biyan  |      | •   |
|---|----|---|------|---|
|   |    | Bryson, Santana and Joshu                       | ıa v | . Rough Country, LLC                            |
|   |    | Page 202  |      | Page 204  |
|   | 1  | looking at crashes that are a 150 milliseconds  | 1    | test after the test is not aligned with the     |
|   | 2  | or 1.5 hundredths. So that's a big difference.  | 2    | center line of the roof of the Escape, that     |
|   | 3  | If one is called a bullet and one is            | 3    | that is somehow evidence that the vehicle       |
|   | 4  | called a target. The bullet vehicle is is       | 4    | offset was was improper?                        |
|   | 5  | going to crush in and align on a path that the  | 5    | A. No, I'm not forgive me. I was                |
|   | 6  | front logo is not. It's going to be very        | 6    | accepting your premise as true in trying to     |
|   | 7  | representative when it hits. And and both       | 7    | answer the questions. Just because you're       |
|   | 8  | experts said they used a crush pattern to       | 8    | looking at a photo that's taken here, it        |
|   | 9  | determine the impact pattern. And and           | 9    | doesn't mean that those things aren't lined up. |
|   | 10 | grimes got 10.9 and I got 11. So we're off by   | 10   | They're not in plane with each other, so the    |
|   | 11 | a tenth of an inch. But the the logo is         | 11   | perspective of the photo may be what's causing  |
|   | 12 | going to be part of that match that he's using. | 12   | it. That was a mistake on my part. We           |
|   | 13 | In other words, he can't he can't somehow       | 13   | haven't we haven't established that logo        |
|   | 14 | say none of us can say that, oh, you know,      | 14   | that that logo isn't lined up with the accident |
|   | 15 | these we're going to use these parts at         | 15   | of the vehicle. It just looks that way because  |
|   | 16 | maximum engagement to determine first contact,  | 16   | it just might be the perspective of the photo.  |
|   | 17 | but we're not going to use these parts. We're   | 17   | Q. Okay. Well, that's what I was                |
|   | 18 | going to say these parts didn't follow the same | 18   | trying to get. That's not the basis of your     |
|   | 19 | physics. I didn't expect this argument. But     | 19   | offset argument                                 |
|   | 20 | the bottom line is, that logo imprint, there's  | 20   | A. No.  |
|   | 21 | only one in both of them or one very            | 21   | Q your offset argument is limited               |
|   | 22 | specific spot. It has to represent impact       | 22   | to the location of the left edge of the logo    |
|   | 23 | because that logo is going to hit before your   | 23   | imprint on the Escape and then the tow hook     |
| Ī |    | Page 203  |      | Page 205  |
|   | 1  | crush happens to any great extent.              | 1    | impact that you interpret?                      |
|   | 2  | Q. Right. And I I wasn't talking                | 2    | A. Yes. They both those are                     |
|   | 3  | about the striking bullet vehicle's logo. I     | 3    | the those are the two strongest indicators      |
|   | 4  | was talking about the logo on the Escape.       | 4    | is the tow hook impact and the logo impact,     |
|   | 5  | A. Right. But they're relative to               | 5    | they're the simplest to see and understand,     |
|   | 6  | each other. The relative position we don't      | 6    | although there is other crush profiles and      |
|   | 7  | mind it moving eventually. I mean, look at      | 7    | things that could be used, those are the ones   |
|   | 8  | where the bumper on the truck on the car is.    | 8    | that are, you know, rock solid if you choose to |
|   | 9  | We're using in fact, Grimes said he used the    | 9    | use them, and those are the ones that I used.   |
|   | 10 | tow hook location mark to put the vehicles      | 10   | Q. Gotcha. And then you add the                 |
|   | 11 | together at at impact. Well, that tow hook      | 11   | overhead photograph as your third method. And   |
|   | 12 | mark is, you know, three feet forward of where  | 12   | I just want to make sure I understand all of    |
|   | 13 | the bumper started, but he's still using that   | 13   | the methods that you used to calculate the      |
|   | 14 | as his mark. That's the way it's done because   | 14   | offset in the crash test.                       |
|   | 15 | physics dictates that the crush will be along   | 15   | A. Yeah.  |
|   | 16 | the line of force. And then we can look at      | 16   | Q. Would those be the main three?               |

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17 The location of the tow hook impact, the left

19 video. Does that cover the gamut of what

21 in the crash test?

22

23

20 you're relying upon to establish the offsetting

A. Logo, tow hook, overhead, yes.

Q. Okay. That's -- that's all I'm

18 edge of the logo imprint, and then the overhead

17 where the contact is and then un-crush the

23 because the logo on the Escape in the crash

Q. Right. But this is what I was

Are you -- are you saying that

18 vehicles and use that contact.

20 trying to get at.

A. Sure.

19

21

22

|  | Bryson, Santana and Josh   |  |  |
|--|--|--|--|
|  | Page 206   |  | Page 208   |
| 1  | getting at with this. All right. This is   | 1  | from the photo. So we're disadvantaged. It   |
| 2  | figure 6 on page 9407. And this is in  | 2  | could have been. It didn't even get the camera   |
| 3  | reference to what I believe you described as   | 3  | directly over the rail according to him. But   |
| 4  | your third method on page 9406 at the top-down   | 4  | you know, within reason within range, we   |
| 5  | crash test video and frames.   | 5  | based on the other work, this is consistent  |
| 6  | A. Yes.  | 6  | with the other work. And we believe it's   |
| 7  | Q. Right. And then you are using   | 7  | it's clearly demonstrates, you know, that the  |
| 8  | this still photograph from the crash test video  | 8  | offset is approximately five inches plus or  |
| 9  | to analyze the offset based upon this topdown  | 9  | minus as the report says.  |
| 10   | view?  | 10   | Q. Do you know the height off the  |
| 11   | A. Yes.  | 11   | ground of the roof of the F-250?   |
| 12   | Q. All right. And kind of explain  | 12   | A. It's in the specs, yes. I don't   |
| 13   | for me, if you can, what the different lines   | 13   | know off the top of my head. But it's a little   |
| 14   | that you've added to this still represent.   | 14   | over six feet probably.  |
| 15   | There's green lines and there's a red dash.  | 15   | Q. All right. And do you know the  |
| 16   | What do those represent?   | 16   | height of the hood of the F-250?   |
| 17   | A. The green line is a projection of   | 17   | A. It's in the specs. I don't know   |
| 18   | a center line of the roof of the F-250. The  | 18   | it exactly, no, sir.   |
| 19   | red line is a projection of the hood of the  | 19   | Q. All right. And do you know the  |
| 20   | F-250 so that we get a range of offset between   | 20   | height of you see on this photograph there's   |
| 21   | the center line of the Escape, which we can use  | 21   | a hinge right here and right (indicating) here   |
| 22   | one line that goes through the hood and the  | 22   | for the rear window of the Escape? Do you see  |
| 23   | roof of the Escape. So those are about 1.42  | 23   | those hinges?  |
|  | Page 207   |  | Page 209   |
|  |  |  |  |
| 1  | from the center of the Escape over and 1.25 to   | 1  | A. I don't know as I sit here, no.   |
| 1 2  | from the center of the Escape over and 1.25 to get a range. So that's going to be plus or  | 1 2  |  |
|  |  |  | A. I don't know as I sit here, no.   |
| 2  | get a range. So that's going to be plus or   | 2  | <ul><li>A. I don't know as I sit here, no.</li><li>Q. You don't know if there's hinges</li></ul>   |
| 2 3  | get a range. So that's going to be plus or minus 16 inches, something like that.   | 2 3  | A. I don't know as I sit here, no. Q. You don't know if there's hinges on the Escape?  |
| 2<br>3<br>4  | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?   | 2 3 4  | <ul><li>A. I don't know as I sit here, no.</li><li>Q. You don't know if there's hinges</li><li>on the Escape?</li><li>A. I don't know the height of it, but</li></ul>  |
| 2<br>3<br>4<br>5   | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?  A. Yes.  | 2<br>3<br>4<br>5<br>6  | <ul> <li>A. I don't know as I sit here, no.</li> <li>Q. You don't know if there's hinges</li> <li>on the Escape?</li> <li>A. I don't know the height of it, but</li> <li>I do see the hinges.</li> </ul>   |
| 2<br>3<br>4<br>5<br>6  | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?  A. Yes.  Q. And 1.25 feet?   | 2<br>3<br>4<br>5<br>6  | A. I don't know as I sit here, no. Q. You don't know if there's hinges on the Escape? A. I don't know the height of it, but I do see the hinges. Q. Right. And so you don't know the   |
| 2<br>3<br>4<br>5<br>6<br>7   | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?  A. Yes.  Q. And 1.25 feet?  A. Yes.  | 2<br>3<br>4<br>5<br>6<br>7   | A. I don't know as I sit here, no. Q. You don't know if there's hinges on the Escape? A. I don't know the height of it, but I do see the hinges. Q. Right. And so you don't know the height of the hinges?   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?  A. Yes.  Q. And 1.25 feet?  A. Yes.  Q. And how did you conduct those  | 2<br>3<br>4<br>5<br>6<br>7<br>8  | A. I don't know as I sit here, no. Q. You don't know if there's hinges on the Escape? A. I don't know the height of it, but I do see the hinges. Q. Right. And so you don't know the height of the hinges? A. Not as I sit here, no.   |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | get a range. So that's going to be plus or minus 16 inches, something like that.  Q. And that's 1.42 feet?  A. Yes. Q. And 1.25 feet? A. Yes. Q. And how did you conduct those measurements between the lines? A. Well, the 5.92 is the width of the Escape. So we can calibrate the image approximately and make measurements on it by knowing a known width. And then we can try to measure other objects in the in the image. Q. So that 1.42 and 1.25 depend upon your reference of the overall width of the Escape?  A. Partially, yes. Yes. Q. All right. And does this account in any way for the parallax in this photograph?                                | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | A. I don't know as I sit here, no. Q. You don't know if there's hinges on the Escape? A. I don't know the height of it, but I do see the hinges. Q. Right. And so you don't know the height of the hinges? A. Not as I sit here, no. Q. Okay. And you didn't factor in any of those heights in analyzing the photo parallax here with this A. Of course I did. I used I used something that was higher than the roof of the Escape and something that was lower than the roof of the Escape to get a range. We know that the roof of the Escape is above the hood of the F-250. But the roof of the Escape is below the roof of the F-250. Q. Right. So the impact the center line impact then following that logic  |

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|    | Bryson, Santana and Joshua v. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 210   |    | Page 212  |  |  |
| 1  | Q. Okay. And you see that the                    | 1  | in the other direction. But can you see the     |  |  |
| 2  | hinge  | 2  | hinge clearly in this, the actual crash video?  |  |  |
| 3  | A. Yeah. But you're not no.                      | 3  | A. I can.                                       |  |  |
| 4  | You're for a measurement, that's what we're      | 4  | Q. Okay. And you would agree that               |  |  |
| 5  | using. You know, the the impact you may          | 5  | the center line on the hood is to the front     |  |  |
| 6  | be bringing in other things in that. But for     | 6  | the inside edge of that hinge?                  |  |  |
| 7  | scaling, that's what we're doing. We need        | 7  | A. Yes.   |  |  |
| 8  | something higher and lower. I'm not talking      | 8  | Q. And then if you extrapolated the             |  |  |
| 9  | about anything but the center lines of the       | 9  | hood, it's naturally due to photo parallax,     |  |  |
| 10 | vehicles there because whatever problems there   | 10 | going to be lower because it's higher than the  |  |  |
| 11 | are with these cameras, I know I can track the   | 11 | Escape, and so it's going to impact somewhere   |  |  |
| 12 | center lines because he's got tape on it. The    | 12 | around the other edge of the hinge?             |  |  |
| 13 | rest of the things are different elevations.     | 13 | A. Close.                                       |  |  |
| 14 | Q. Right. Well, I'm just talking                 | 14 | Q. Close. Right. So this is what I              |  |  |
| 15 | about in reference to the center line.           | 15 | was the point I was trying to make before is    |  |  |
| 16 | A. Okay. That's what I'm talking                 | 16 | that according to this analysis, using the      |  |  |
| 17 | about.   | 17 | overhead, the center of the F-250 would be      |  |  |
| 18 | Q. Right. You've got a green center              | 18 | somewhere between the right edge of that hinge  |  |  |
| 19 | line that's higher than the Escape. You've got   | 19 | or the top edge and then somewhere along the    |  |  |
| 20 | a red center line that's lower. And so the       | 20 | hinge. Correct?                                 |  |  |
| 21 | center line impact would be, according to your   | 21 | A. Well, you're you're adding a                 |  |  |
| 22 | analysis, somewhere between the red line and     | 22 | point that we the problem is you can you        |  |  |
| 23 | the green one?                                   | 23 | can find a large number of points and do a      |  |  |
|    | Page 211   |    | Page 213  |  |  |
| 1  | A. For the for the purposes of the               | 1  | large number of analyses, and the cameras       |  |  |
| 2  | analysis, yes.                                   | 2  | weren't set up well to do that. We're using     |  |  |
| 3  | Q. Right. And do you see the hinge               | 3  | this as best we can. And I'm not saying it's    |  |  |
| 4  | there is between the red line and the green      | 4  | relative to the hinge. I'm saying based on the  |  |  |
| 5  | line?  | 5  | way we scale, the way we did it, you're looking |  |  |
| 6  | A. Well, I I can't see it. But                   | 6  | at the measurements I gave you.                 |  |  |
| 7  | Q. All right. Well, hold on a                    | 7  | What is true is the impact was was under        |  |  |
| 8  | second. Would it help if I pulled up the         | 8  | that hinge. The logo was under that hinge at    |  |  |
| 9  | actual video from the crash test, if I can do    | 9  | impact, and we know that. And so generally      |  |  |
| 10 | that?  | 10 | speaking your analysis is good. But I'm you     |  |  |
| 11 | MS. CANNELLA: How is he suppose                  | 11 | know, I'm not saying it's to the level I think  |  |  |
| 12 | to know if that helps or not? I object to the    | 12 | you're trying to point out there. But I do      |  |  |
| 13 | question.  | 13 | agree that the that the logo was below the      |  |  |
| 14 | MR. HILL: I'm just saying                        | 14 | hinge at impact.                                |  |  |
| 15 | Q. Okay. Can you see on the screen               | 15 | Q. Right. Do you know if distance               |  |  |
| 16 | now the video from the crash test?               | 16 | from the inside of this hinge to the center of  |  |  |
| 17 | A. Sure.   | 17 | the Escape? Have you measured that?             |  |  |
| 18 | Q. All right. And so this is right               | 18 | A. I haven't. But it's going to be              |  |  |

23 F-250. So you're looking at it from the back.

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Q. Okay. And that's from the edge of

21 the hinge -- on this photograph, it would be

the -- let's use it from the perspective of the

20

22

19 close to 18 inches.

800.808.4958

19 before impact. And if I take it to the point

21 see, the center lines for the hood and the

20 of impact, all right, we now have, as you can

22 roof. This is basically the same picture you

23 had except I don't know why yours was flipped

|     | Diyson, Buntana and Joshi                       |    | . Hough country, EEC                            |
|-----|---|----|---|
|     | Page 214  |    | Page 216  |
| 1   | It would be the right edge of the left hinge.   | 1  | direction or because someone didn't ask him to  |
| 2   | You're saying the distance from that sorry?     | 2  | allow measurements to be made. I don't know     |
| 3   | A. My report gives a spacing between            | 3  | which one. You can read his depo and see which  |
| 4   | 3   | 4  | one.  |
| 5   | of that. It's it's in the original FR26         | 5  | But what we're doing here is one I              |
| 6   | report.   | 6  | wouldn't even know where the center lines of    |
| 7   | Q. Okay. And in order for your                  | 7  | the vehicles are if he didn't put the tape on,  |
| 8   | analysis of the F-250 logo imprint to be        | 8  | I'd have to be estimating that. But he did      |
| 9   | correct, you're saying the distance between the | 9  | Grimes didn't know the tape was on the center   |
| 10  |   | 10 | line. Okay? In his deposition, he didn't know   |
| 11  | inches?   | 11 | it. Crosby confirms it's on the center line.    |
| 12  | A. No. I was giving an estimate.                | 12 | Thank you, Mr. Crosby. I appreciate having      |
| 13  | Let's let's open up a open up a we're           | 13 | something I can measure to. And so we are       |
| 14  | doing an analysis based on the center lines we  | 14 | using those center lines because it's what was  |
| 15  | were provided. The hinge itself is where the    | 15 | provided. You are now trying to do an analysis  |
| 16  | hinge itself. I'm not trying to measure the     | 16 | based on hinge, which I have no problem doing.  |
| 17  | hinge. I'm doing an offset between the dotted   | 17 | The impact was under the hinge. The logo was    |
| 18  | center lines that he gave us. Okay? And it's    | 18 | under the hinge. But we would do that looking   |
| 19  | just a technique that we can use. It gives a    | 19 | at the rear of the vehicle where we wouldn't    |
| 20  | range. The hinges are however far the hinges    | 20 | have depth problems and scaling problems.       |
| 21  | are. I'm not trying to estimate that. But       | 21 | The the problem is that Crosby didn't do it     |
| 22  | wherever they are, they are. And I know the     | 22 | in a way to facilitate this. So we we have      |
| 23  | measurement because I've got it in my first     | 23 | to find reasonably reliable ways. I'm not       |
|     | Page 215  |    | Page 217  |
| 1   | report. I just would have to take time to open  | 1  | going to profess to know where the hinge is     |
| 2   | up the report if you want me to do it.          | 2  | based off of this photo. I'm going to profess   |
| 3   | Q. But are you saying that you can't            | 3  | to know where the hinge is because I can        |
| 4   | use the hinge as a reference point to determine | 4  | measure the hinge. It's been documented and we  |
| 5   |   | 5  | know where it is. I'm only able to use what     |
| 6   | it's no different than using the center lines.  | 6  | because it wasn't properly documented, all      |
| 7   | It's just another reference point. Correct?     | 7  | someone had to do was take a tape measurer and  |
| 8   | A. That's false.                                | 8  | hold it up where the logo imprint is and take a |
| 9   | Q. Okay. What's false about that?               | 9  | photo of it. Crosby said he went out there and  |
| 10  | A. Remember, Crosby has routinely               | 10 | looked at it and held a measure the tape up     |
| 11  | marked the impact point with markers. He has    | 11 | to it and says it's offset by an inch, but he   |
| 12  | routinely set up cameras to allow measurements  | 12 | didn't do it. So now I'm left using these       |
| 13  | to be made. He did take photographs of his      | 13 | methods from my own independent analysis, and I |
| 14  | intended impact quite accurately. But he did    | 14 | get five inches.                                |
| 15  | not document the impact. In fact, his report    | 15 | But remember, Grimes did do a point cloud       |
| 16  | •   | 16 | match when he got the same answer, and I have   |
| 17  | orientation, we know it's wrong and that his    | 17 | that to show you. So that's his work that we    |
| 18  | report is misleading. He gave an impact         | 18 | can also use. We don't even have to do this.    |
| 19  | location that is one hundred percent not        | 19 | But when we did it to make sure of where it     |
| 20  | _   | 20 | was, we got five inches using these methods.    |
| 21  | reported it as an impact location. The only     | 21 | But I'm not here to measure a hinge this way.   |
| 100 |   |    |   |

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22 This is not the right way to do it. We're only

23 stuck doing it this way because someone didn't

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22 so we have limited tools because he left out

23 those tools. Apparently, at someone's

|    | Bryson, Santana and Joshua v. Rough Country, LLC |     |   |  |  |
|----|--|-----|---|--|--|
|    | Page 218   |     | Page 220  |  |  |
| 1  | do it reasonably well in the crash test.         | 1   | I've already told you that his report is        |  |  |
| 2  | Q. Let's go back. Again, I'm                     | 2   | erroneous as to where the impact was. His       |  |  |
| 3  | simply the question was, if you can measure      | 3   | drawings are wrong. We do have one very small   |  |  |
| 4  | the center line that's referenced in this photo  | 4   | fortunate piece of luck, and that is that the   |  |  |
| 5  | that you're saying but you can't reliably        | 5   | tape that someone put on the tow hook to hold   |  |  |
| 6  | refer to the hinge in this photo. What's the     | 6   | the trigger or the light trigger on, that tape  |  |  |
| 7  | basis of that?                                   | 7   | did leave a white mark on the rear of the       |  |  |
| 8  | MS. CANNELLA: Asked and answered.                | 8   | Escape so we can actually use it. Obviously     |  |  |
| 9  | A. I didn't do it to measure the                 | 9   | Grimes doesn't know it, and Crosby doesn't know |  |  |
| 10 | hinges. I I used it to measure the distance      | 10  | it, but if you look at the photos, you can see  |  |  |
| 11 | between the two yellow lines.                    | 11  | it. And then if we go to Grimes's own crush     |  |  |
| 12 | Q. Right.  | 12  | match, we can measure 16 inches, just like I've |  |  |
| 13 | A. That's why I did it. I don't like             | 13  | been telling you all along. There's there's     |  |  |
| 14 | the method. I I'm stuck with the method          | 14  | 45 percent more offset, 16 inches logo to logo  |  |  |
| 15 | because the cameras, you know, as Crosby went    | 15  | that's in his work in his file. But he didn't   |  |  |
| 16 | through, the camera was was improperly           | 16  | testify about it in his deposition and, in      |  |  |
| 17 | positioned. So it's an imperfect method. If I    | 17  | fact, claimed that he hadn't done it.           |  |  |
| 18 | know where something is, I'm going to measure    | 18  | Q. What is erroneous about Crosby's             |  |  |
| 19 | it in the proper way. If I don't know where it   | 19  | report? What specifically did he put in there   |  |  |
| 20 | is and I have to do this type work and do it     | 20  | that you say is an error?                       |  |  |
| 21 | multiple ways, that's why we have a range of     | 21  | A. Well, if you look at this image              |  |  |
| 22 | four to six inches. There's some error           | 22  | right here well, if you back up the video       |  |  |
| 23 | involved in this. So I'm the hinge, I know       | 23  | one frame, you'll see that the truck isn't      |  |  |
|    | Page 219   |     | Page 221  |  |  |
| 1  | where it is and I can measure it. And we can     | 1   | centered over the rail. And he shows it         |  |  |
| 2  | look at the back of the car and tell the logo    | 2   | centered over the rail. And then if you look    |  |  |
| 3  | mark is under the hinge just like what we see    | 3   | at where yeah, and then if you look at where    |  |  |
| 4  | right here. So if we know where the hinge is,    | 4   | the impact is on the car, the impact is in a    |  |  |
| 5  | we can come down and know where the logo is.     | 5   | different spot. That truck is not centered on   |  |  |
| 6  | But I don't need to estimate where the hinge     | 6   | that rail.                                      |  |  |
| 7  | is. I know where the hinge is. It's the logo     | 7   | Q. Well, he did not, in his report,             |  |  |
| 8  | mark I need.                                     | 8   | indicate anything about the location of the     |  |  |
| 9  | Q. Right. But the logo mark is                   | 9   | the F-250 at the time of impact. Correct?       |  |  |
| 10 | dependent upon your conclusion that the left     | 10  | A. Oh, of course he did. He drew it             |  |  |
| 11 | edge of the logo mark is, indeed, a              | 11  | and he stated it was centered over the rail.    |  |  |
| 12 | representation of the left edge of the logo.     | 12  | It says it verbally it says it verbally on      |  |  |
| 13 | All of your opinions depend upon that being      | 13  | page two or three or four and shows a diagram   |  |  |
| 14 | accurate?  | 14  | on page three or four or five. And it's         |  |  |
| 15 | MS. CANNELLA: Object to the form                 | 15  | it's wrong. It is it is wrong. It is a          |  |  |
| 16 | of the question. Misstates his testimony.        | 16  | misstatement of what he did in his crash test.  |  |  |
| 17 | A. Well, the logo mark that I see                | 17  | And he knew it, and he left it in there.        |  |  |
| 18 | needs to be understood as a logo mark. You're    | 18  | Q. Well, he stated that the center              |  |  |
| 19 | correct. But the tow hook mark needs to be       | 19  | line was above the center of the truck at the   |  |  |
| 20 | understood as a tow hook. And by the way,        | 20  | time the test was initiated?                    |  |  |
| 21 | •  | l   | A. No. Let's let's go back and                  |  |  |
| 22 |  | l   | read it. Let's not argue. Let's just go         |  |  |
| 22 | so vuo sould tall vuhama tha immast vuos. And    | 122 | late as look at the discuss. That's the heat    |  |  |

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23 let's go look at the diagram. That's the best

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23 so we could tell where the impact was. And

|          | Bryson, Santana and Joshua v. Rough Country, LLC |          |   |  |
|----------|--|----------|---|--|
|          | Page 222   |          | Page 224  |  |
| 1        | one. He actually has the rail labeled.           | 1        | that's the third line from the bottom. In this  |  |
| 2        | Q. Right. And all of those diagrams              | 2        | orientation the front of the F-250 struck the   |  |
| 3        | are running the test. Correct?                   | 3        | rear of the Escape. And above that it   |  |
| 4        | A. He labels it impact. He labels it             | 4        | describes the orientation with it says the  |  |
| 5        | impact.  | 5        | F-250 was towed into the impact rolling   |  |
| 6        | Q. All right. What else do you claim             | 6        | straight ahead with it's longitudinal center  |  |
| 7        | is erroneous about his report?                   | 7        | line collinear with the center line of the  |  |
| 8        | A. Well, let me let me show you                  | 8        | exponent crash rail. There's only one   |  |
| 9        | that first. I I want to show you here.           | 9        | interpretation of those two sentences. He   |  |
| 10       | Okay. So it will take a minute. I don't know     | 10       | intended to have it collinear with the crash  |  |
| 11       | where his report is. In fact, it's in fact,      | 11       | rail, and it was collinear with the crash rail.   |  |
| 12       | I didn't include the report in what I sent you.  | 12       | It was not. Although, I fully believe that was  |  |
| 13       | Can you pull it up and let's go to page three    | 13       | his intent.   |  |
| 14       | or four? Just because I didn't want to resend    | 14       | Q. Right. But that and that's the   |  |
| 15       | all of Grimes's stuff. You have it in his        | 15       | entire basis of your argument that he has   |  |
| 16       | stuff.   | 16       | testified that at impact the F-250 was exactly  |  |
| 17       |  | 17       | •   |  |
|          | Q. You want Grimes's report or Crosby's report.  |          | collinear to the center line of the tape.   |  |
| 18<br>19 | • •  | 18       | That's the entire basis of that opinion?  |  |
|          | A. Let's go with excuse me                       | 19       | MS. CANNELLA: Object to the form  |  |
| 20       | Crosby's. I didn't send it back to you, but in   | 20       | of the question.  |  |
| 21       | his file something says report and on page five  | 21       | Q. What you decided?  |  |
| 22       | he labels impact configuration and draws the     | 22       | A. Yes. First, the report is wrong.   |  |
| 23       | rail down the center of the vehicle, which is    | 23       | And then and the basis is the work I've   |  |
|          | Page 223   |          | Page 225  |  |
| 1        | false. And then                                  | 1        | shown you and Grimes's work, which I need to  |  |
| 2        | Q. Let me see if I can find it.                  | 2        | show you, and then the second page of this  |  |
| 3        | A. Sure.   | 3        | gives the drawing, if you just flip to it,  |  |
| 4        | MS. CANNELLA: I believe we're                    | 4        | which is page five, it shows it unequivocally   |  |
| 5        | talking about the Exponent report?               | 5        | the offset is supposed to be 10.9. The vehicle  |  |
| 6        | THE WITNESS: Is that Crosby?                     | 6        | is supposed to be center line both of which are   |  |
| 7        | MS. CANNELLA: Yeah. He had a                     | 7        | false and this is labeled impact configuration.   |  |
| 8        | letter report too.                               | 8        | And then there's one other page in this report  |  |
| 9        | THE WITNESS: Oh. I'm talking                     | 9        | that was wrong. Just on this one topic.   |  |
| 10       | MS. CANNELLA: You're talking                     | 10       | Q. All right. Anything else that  |  |
| 11       | about the crash test report?                     | 11       | A. Well, we've kind of  |  |
| 12       | THE WITNESS: Yeah. Yep.                          | 12       | MS. CANNELLA: The basis of what?  |  |
| 13       | A. So on page four he states it                  | 13       | Object to the form of the question.   |  |
| 14       | verbally. On page five he does it with the       | 14       | MR. HILL: The basis of his  |  |
| 15       | drawing. The drawing is the proper way to        | 15       | statement that Crosby's report was wrong.   |  |
| 16       | communicate it clearly and he labels it impact.  | 16       | A. Well, we're talking about just   |  |
| 17       | He uses the words and gets the same inclusion,   | 17       | with respect to the offset. If you go to  |  |
| 1        | 114 1 1 1 1                                      | 18       | page 94 of the report, he reports to a tenth of   |  |
| 18       | and it's a misstatement of what happened.        |          |   |  |
| 18<br>19 | Q. Okay. Here's page four of his                 | 19       | the inch the impact, which he's off by, you   |  |
|          |  |          | the inch the impact, which he's off by, you know, five inches which is, you know, erroneous |  |
| 19       | Q. Okay. Here's page four of his                 | 19       |   |  |
| 19<br>20 | Q. Okay. Here's page four of his report.         | 19<br>20 | know, five inches which is, you know, erroneous   |  |

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|    | Bryson, Santana and Joshi                       | ıa v | . Rough Country, LLC                            |
|----|---|------|---|
|    | Page 226  |      | Page 228  |
| 1  | is on the Escape                                | 1    | I've found a point cloud or any work that shows |
| 2  | A. No. That's that's Grimes's. I                | 2    | the vehicles put together in the point cloud    |
| 3  | didn't need to show you Grimes's. I guess I     | 3    | with this original document, and then I zoomed  |
| 4  | need to show you Grimes's. Grimes's own work    | 4    | down on it. And then I look at it from the      |
| 5  | shows that. He doesn't he doesn't discuss       | 5    | front. So now I can look at the alignment of    |
| 6  | it in his depo. But let me just show you his    | 6    | the two vehicles. This is his work. And in      |
| 7  | point cloud that has the vehicles center line   | 7    | cloud compare I can I can turn the top off.     |
| 8  | 16 inches apart.                                | 8    | So now I turn the top off, and I can see the    |
| 9  | Q. All right. Did you produce that              | 9    | Ford logo. And the first thing you notice is    |
| 10 | with your files related to the your what        | 10   | the front of this truck is inside the Escape.   |
| 11 | did you call it, rebuttal report?               | 11   | You don't see any hash on the Escape. He has    |
| 12 | A. No. No. That's his file. I                   | 12   | the vehicle's position forward so that the      |
| 13 | that is his file.                               | 13   | truck is inside the Escape, which of course     |
| 14 | Q. All right.                                   | 14   | isn't a good match when that happens, but he    |
| 15 | A. That's his cloud all I did is                | 15   | does have the logo. And then here we kind of    |
| 16 | view it the way I normally would viewing my own | 16   | hold in the front of the Ford so we can see     |
| 17 | work. I sat this morning and worked on cloud    | 17   | where the Escape logo is inside of the Ford.    |
| 18 | for other things. I can view it. I can open     | 18   | And then we just measure the distance between   |
| 19 | windows. I can close windows. Turn vehicles     | 19   | the two, and it's 16 inches. So his this is     |
| 20 | on and turn vehicles off and I can show you how | 20   | his original work that was provided with his    |
| 21 | what we did. I saved the viewing of it to       | 21   | deposition. This is his file.                   |
| 22 | present to you today to make it easy. But I     | 22   | Q. Can you leave that up, please.               |
| 23 | can open up cloud compare if you want.          | 23   | A. Sure. I'm yeah, there we go.                 |
|    | Page 227  |      | Page 229  |
| 1  | Q. Whatever you want to do to                   | 1    | That was my computer is glitchy today too.      |
| 2  | illustrate the point. I didn't know if you      | 2    | So that's                                       |
| 3  | needed me to could open it or if you could open | 3    | Q. Go ahead. Sorry.                             |
| 4  | it.   | 4    | A. Let me just finish. That                     |

5 A. Sure. I can open it.

6 Q. All right.

7 A. Okay. So I'm going to share

screen. And that's going to work today.

Share. I'm going to open up a PowerPoint that

10 I -- I did so I didn't have to open up cloud

11 compare today because it's very hard to open up 11

12 on Zoom. And this is it.

13 So it's Grimes's offset. I added those

14 words. The rest of this is -- is his title

15 from his file, test MMC both vehicles. And the

16 first page here is an image of his file that he

17 gave me. So it's in the testing folder. Open

18 up the testing folder, page two, it's in the

19 point clouds. In the point clouds, this is his

20 cloud compare file and it's titled test MMC

21 both vehicles. And all I do is I open that.

And when I open it, this is what I see. So 22

23 this is -- this is what he -- the only place

5 the -- the left is the center of the Ford logo.

6 In his cloud compare, the right is the center

of the Ford logo of the truck in his cloud

compare and the measurements at the top are

what's important. The key to the measurements

10 is in the lower right, it gives you the X, Y

and Z orientations. So the delta-Y is the

12 number to look at. It's 16 inches logo to logo

13 in the work that he did.

14 Q. Okay. And now you just explained 15 that this cloud point is not representing the 16 vehicles at the point of impact. Correct?

17 Right. This is his -- this is a

18 representation of where they -- where they are.

19 And because he said it was a twelve o'clock

20 impact, those are 16 inches apart.

21 Q. Right. That's not my question.

22 Is -- you said like the front of the F-250 in

this comparison that you're using is already

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|-----|--|----|---|--|
|     | Page 230   |    | Page 232  |  |
| 1   | well past impact. It's not this is not           | 1  | A. No. Because we have the stamp at             |  |
| 2   | representative of the point of impact?           | 2  | near first contact that matches this            |  |
| 3   | A. Oh, it is very representative.                | 3  | measurement. So we get the Ford emblem stamp    |  |
| 4   | But this is his maximum this is worse than       | 4  | at first contact about 16 inches over that      |  |
| 5   | maximum engagement. He's actually pushed the     | 5  | matches this. And then we have his work that    |  |
| 6   | Ford too far into the Escape. But his            | 6  | shows they're still 16 inches apart, what he's  |  |
| 7   | alignment this is the only place in the file     | 7  | calling maximum engagement. And that's          |  |
| 8   | that the impact alignment is documented where    | 8  | consistent with a straight rear end impact of   |  |
| 9   | it can directly be measured without the effort   | 9  | zero degrees by the as as the Crosby            |  |
| 10  | that we had to put into it. This file is the     | 10 | report says Grimes had him lined up. So we      |  |
| 11  | only one we can measure, it's the only one of    | 11 | have a record very near first contact. We have  |  |
| 12  | proof of where the center of the vehicles are,   | 12 | a record at maximum contact. And Grimes never   |  |
| 13  | and he he has it at 16 inches, which is the      | 13 | showed any of this and and or revealed          |  |
| 14  | impact orientation.                              | 14 | this in his deposition, but his file does       |  |
| 15  | Q. Well, let's let's back up now.                | 15 | reveal it.                                      |  |
| 16  | You said this represents the point of maximum    | 16 | Q. Well, he wasn't asked in his                 |  |
| 17  | impact from from Grimes perspective.             | 17 | deposition about comparing the Ford logos at    |  |
| 18  | Correct?   | 18 | maximum crush depth, which is the only thing    |  |
| 19  | A. Yes. This seems this is what                  | 19 | this shows. And this was produced in his        |  |
| 20  | he's been using to give his opinions off of,     | 20 | deposition and was part of the basis of his     |  |
| 21  | but not I don't know why he didn't show it,      | 21 | opinion with regard to the maximum depth. So    |  |
| 22  | but it's buried in his file. Yeah. It's he       | 22 | if he didn't feel like the maximum crush depth, |  |
| 23  | still met the length of the vehicles and         | 23 | which is several feet into the vehicles, was    |  |
|     | Page 231   |    | Page 233  |  |
| 1   | everything, and this is why the length has an    | 1  | representative of impact point, then it's not   |  |
| 2   | issue, but yeah this is much closer to maximum   | 2  | like he's hiding anything; he just didn't think |  |
| 3   | engagement than it is first contact.             | 3  | they had anything to do with each other.        |  |
| 4   | Q. All right. So this is                         | 4  | MS. CANNELLA: Object to whatever                |  |
| 5   | representing the the location of the logos       | 5  | that was. Not a question.                       |  |
| 6   | at maximum impact, maximum crush, not at the     | 6  | Q. Do you agree with that?                      |  |
| 7   | point of impact between the two vehicles?        | 7  | A. As long as we don't have physics             |  |
| 8   | A. Right. The drawing is near                    | 8  | and Newton's laws and the other evidence, I     |  |
| 9   | maximum. But because it's a collinear impact     | 9  | could agree with you. But we we actually        |  |
| 10  | it does it is it is the most represented         | 10 | have the problem of science and engineering and |  |
| 11  | of the first point of contact that exists        | 11 | the ability to calculate, and even know that    |  |
| 12  | that that we can do. In other words,             | 12 | this truck didn't move sideways. We have a      |  |
| 13  | he's he cannot get a five a 10.9 inch            | 13 | record of this truck on the video where it's    |  |
| 14  | offset from this rest or this maximum contact    | 14 | not moving sideways during this. For your       |  |
| 15  | point. These points should still be 11 inches    | 15 | statement to be true, we would have to throw    |  |
| 16  | apart because it's a collinear excuse me,        | 16 | out everything else we know about this and we   |  |
| 17  | it's a it's a six o'clock PDOF. The truck        | 17 | would have to have a video of the truck coming  |  |
| 18  | should push in with five inches eleven           | 18 | in and dancing, you know, as it comes in.       |  |
| 19  | inches of offset, not 16 inches of offset        | 19 | And and that didn't happen. And so in a         |  |
| 20  | that's shown here.                               | 20 | vacuum of uneducated persons, yes. But if       |  |
| 21  | Q. So your opinion depends upon the              | 21 | we're going to do engineering and science and   |  |
| 100 | 1.1.1  | 00 | a a case  |  |

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22 physics, we -- we know that this is

23 representative of first contact. And so I

22 crush being perfectly linear with the center

23 line of both vehicles at maximum crush?

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|----|--|----|---|--|
|    | Page 234   |    | Page 236  |  |
| 1  | disagree with the statement you make             | 1  | A. I'm I'm not                                  |  |
| 2  | wholeheartedly.                                  | 2  | MS. CANNELLA: Object to the form                |  |
| 3  | Q. Well, even in this this scan                  | 3  | of the question. Mischaracterizes his           |  |
| 4  | that you have up here, the Ford logo of the      | 4  | testimony.                                      |  |
| 5  | Escape is not lined up with the center line of   | 5  | A. I'm saying his logos his logos               |  |
| 6  | the Escape. Correct?                             | 6  | are 16 inches apart, which is the same distance |  |
| 7  | A. Oh, it is. It is.                             | 7  | they were apart at impact.                      |  |
| 8  | Q. Well, if you look at the bottom of            | 8  | Q. Right.                                       |  |
| 9  | this image, if you would leave it up there,      | 9  | A. And we can make measurement of               |  |
| 10 | please.  | 10 | that. We don't have to we we don't have         |  |
| 11 | A. I'm doing everything I can. The               | 11 | to try to visualize it. We have an exact        |  |
| 12 | computer doesn't want to cooperate. I            | 1  | measurement of it two different ways. That's    |  |
| 13 | apologize. It has it has went black and          | 13 | what I'm saying.                                |  |
| 14 | it's freezing. It's why I can't open the         | 14 | Q. Well, my question is at this point           |  |
| 15 | original files. Just give it a second and see    | 15 | in the crash sequence, what evidence do you     |  |
| 16 | if it let me see if I can stop sharing and       | 16 | have that the Ford Escape logo is still aligned |  |
| 17 | if it will come back. With the video image and   | 17 | with the center of the Ford Escape?             |  |
| 18 | all this, it's I don't know if you can see       | 18 | A. Well, it well, this is it's                  |  |
| 19 | me. I can't even see you.                        | 19 | been pinned and caught by the front of the      |  |
| 20 | Q. I can see you. I can't see                    | 20 | vehicle. It may not be aligned with the         |  |
| 21 | anything being shared.                           | 21 | center, but it is definitely the                |  |
| 22 | A. Yeah, I've got a I've got a                   | 22 | relationship between these two is is has        |  |
| 23 | black screen. There we go. Okay. It says the     | 23 | been anchored in the impact. And that's why we  |  |
|    | Page 235   |    | Page 237  |  |
| 1  | picture can't be displayed, so something has     | 1  | have this imprint and we have this and them     |  |
| 2  | happened to the PowerPoint. It's one of those    | 2  | coming in and that's why they're here with the  |  |
| 3  | things that happens with computers. Let me try   | 3  | crushed vehicles. That's the reason everything  |  |
| 4  | to close it and reopen it. Yeah. We're           | 4  | lined up, that's the way Grimes lined it up.    |  |
| 5  | catching some grief here. Okay. Yeah.            | 5  | It doesn't mean you didn't the car was bent.    |  |
| 6  | This okay. That's that's where we are.           | 6  | But it's aligned with essentially where it was  |  |
| 7  | Thank you.                                       | 7  | at the beginning of the impact. But where the   |  |
| 8  | Q. Do we need a break for you to try             | 8  | front is now, we would have to go look at the   |  |
| 9  | to get it up there?                              | 9  | video and see what shifting it did. But we      |  |
| 10 | A. Well, I I thought it was up                   | 10 | don't see the F-250 coming in and going         |  |
| 11 | there.   | 11 | sideways. We don't see the back of the car      |  |
| 12 | Q. I can't see it.                               | 12 | going sideways to this level. This is           |  |
| 13 | A. Here, try that. How about that?               | 13 | Grimes said to 10.9 inches, and he got it from  |  |
| 14 | How about that?                                  | 14 | this, by the way. This is how he got 10.9. He   |  |
| 15 | Q. Right. Okay. If you'd look at                 | 15 | didn't see the crash happen. He used this type  |  |
| 16 | the bottom of the screen, you have a yellow      | 16 | of analysis to get 10.9. And he measured        |  |
| 17 | tape there in the scan that indicates the        | 17 | between where they were now and projected back  |  |
| 18 | center line on the hood of the Escape.           | 18 | to where they were at the time. And he was      |  |
| 19 | Correct?   | 19 | able to say 10.9. I'm doing in reverse exactly  |  |
| 20 | A. Yes.  | 20 | what he did with this crash test, and this is   |  |
| 21 | Q. All right. And you're saying that             | 21 | 16.   |  |
| 22 | that is aligned with the Ford logo on the back   | 22 | Q. So your opinion depends upon the             |  |
| 23 | of the Escape in this scan?                      | 23 | position of the logo as being anchored          |  |

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|    | Bryson, Santana and Josh                        |    | •  |
|----|---|----|--|
|    | Page 238  |    | Page 240                                       |
| 1  | permanently throughout the crash scene?         | 1  | now.   |
| 2  | MS. CANNELLA: Object to the form                | 2  | Q. That you have on the screen                 |
| 3  | of the question. Misstates his testimony.       | 3  | right now if you back up that is               |
| 4  | A. Look, I change height throughout             | 4  | contained within Grimes's file, that image     |
| 5  | the day. The more I stand up, the shorter I     | 5  | right there (indicating). Is that correct?     |
| 6  | get. When I lay down at night, I get a little   | 6  | MS. CANNELLA: All of this data is              |
| 7  | bit longer. But I'm always 6' 2, you know,      | 7  | from from Grimes's file, Rick. This is         |
| 8  | within reason. Yeah. There this is this         | 8  | he's just he's showing us the file that        |
| 9  | is a really good this is the best               | 9  | Grimes produced. That's what we're looking at. |
| 10 | representation that whatever exists for how the | 10 | MR. HILL: Right.                               |
| 11 | vehicles were at maximum engagement and also at | 11 | Q. But the image that you just had on          |
| 12 | initial contact, and it's the same method       | 12 | the screen with the pink lines and the         |
| 13 | Grimes used to get 10.9 inches of offset and I  | 13 | measurement box, that's not in Grimes's file?  |
| 14 | used to get 11 inches of offset, and yes. But   | 14 | MS. CANNELLA: You asked him to                 |
| 15 | perfect within a millionth of an inch, no. But  | 15 | create that for you. You asked him to show it  |
| 16 | certainly within an inch.                       | 16 | to you.  |
| 17 | Q. All right. And how did you                   | 17 | MR. HILL: Right. But he created                |
| 18 | measure the points here between these two       | 18 | that prior to the deposition. Correct?         |
| 19 | edges?  | 19 | MS. CANNELLA: No. He did it                    |
| 20 | A. I just opened up his file and                | 20 | right in front of us. Sorry. Go ahead,         |
| 21 | clicked measure between here and here. And it   | 21 | Bryant.  |
| 22 | gives me the lateral measurement of 16 inches.  | 22 | A. I I did not. I can do it right              |
| 23 | It's it's it is literally the                   | 23 | in front of you if I open cloud compare. These |
|    | Page 239  |    | Page 241                                       |
| 1  | measurements of all of these points that are    | 1  | are scaled vehicles all of these measurements  |
| 2  | embedded in his file. I just have to ask the    | 2  | are embedded in his file. That's how it knows  |
| 3  | computer to display it.                         | 3  | where all these things are. That's what we do  |
| 4  | Q. All right. And this measurement              | 4  | 8  |
| 5  | scan here was not produced to us prior to the   | 5  | drawing, we can take a scale and the scale, it |
| 6  | deposition. Correct?                            | 6  | has an infinite number of measurements on it   |
| 7  | A. It was in Grimes's file.                     | 7  | that we just read off. You asked me for the    |
| 8  | Q. Well, not your input of the points           | 8  | distance between these two points, I put the   |

9 and the measurement between the two points.

10 That's not in Grimes's file.

Yes, it is. All of these 11 A.

12 measurements are embedded. That's how it

generates the images, it knows the measurement 13

14 between each point. I'm just showing -- I'm

15 just exposing it. That's all I did.

16 Q. Right. But Grimes's scan doesn't

17 contain this pink line and the distance window

18 up there that you've inputted into this, does

19 it?

20 MS. CANNELLA: I'm just going to

21 object to the suggestion that something --

something was not produced. That's ridiculous.

23 This is Grimes's data we're looking at right

9 scale on it. Now, the computers it's AutoCAD

10 so you want the distance between two points, we

11 just put it up and measure them. In this 3D

12 point cloud, all of these measurements are

already in there. I'm just going to expose the

14 ones I want to see. So I don't have to make

15 that pink line. I did that to demonstrate how

16 we can use it to show the measurements that are

17 in his file already. I'm just exposing them.

18 It -- because -- because I have to open the

19 cloud compare file, I don't even have the cloud

20 compare file on my laptop that I use for Zoom.

21 It's on a bigger, stronger computer. All we

22 have to do is open his file and say -- and we

23 can get any -- we can get millions of

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|   |    | O. Diyan  | ιbu  | July 11, 202 <sup>2</sup>                       | t |
|---|----|---|------|---|---|
|   |    | Bryson, Santana and Joshu                       | ıa v | . Rough Country, LLC                            |   |
|   |    | Page 242  |      | Page 244  | 1 |
|   | 1  | measurements from his file just by telling the  | 1    | cloud drawings. I'm saying there's no mention   |   |
|   | 2  | computer, show us show us these scale           | 2    | in your report that you will be relying upon    |   |
|   | 3  | measurements it already has in it. We're just   | 3    | Grimes's cloud drawings in regarding the        |   |
|   | 4  | exposing it. If it had all the measurements     | 4    | offset.   |   |
|   | 5  | showing, you wouldn't even know what it was     | 5    | A. Yeah. I I said I used his                    |   |
|   | 6  | because it would just be a cloud of millions of | 6    | file. I mean, that's what we used. That's       |   |
|   | 7  | numbers. So this is how builders build houses.  | 7    | what we used was Crosby's file and Grimes's     |   |
|   | 8  | This is how re-constructionists draw a scene.   | 8    | file and Crosby's depo and Grimes's depo.       |   |
|   | 9  | This is how re-constructionists look at cars    | 9    | Q. All right. Well, I think it's                |   |
|   | 10 | that are stuck together. We use a computer      | 10   | pretty clear you said there's three methods     |   |
|   | 11 | program to open it up. And if I open it up, I   | 11   | that you used to determine the offset           |   |
|   | 12 | can spin it around and look at it and show his  | 12   | A. My work. This is his work.                   |   |
|   | 13 | work, and I can measure any point that I want   | 13   | Q. If you'll let me finish. But if              |   |
|   | 14 | to measure and demonstrate it. I'm not really   | 14   | you're going to rely upon his work              |   |
|   | 15 | measuring. I'm just exposing the measurement    | 15   | A. Sir sir, I can't see you the                 |   |
|   | 16 | that's in there. So what I did was when I       | 16   | way we're doing this. Can I go back to where I  |   |
|   | 17 | opened the the cloud compare, I was going to    | 17   | can use the camera to see you?                  |   |
|   | 18 | open it and just show it to you in the depo and | 18   | Q. Sure.  |   |
|   | 19 | then I realized I'm using a non-cloud compare   | 19   | A. That's why I'm interrupting you.             |   |
|   | 20 | computer and it will also probably kill my      | 20   | Thanks.   |   |
|   | 21 | video link. I said, okay, let me show them how  | 21   | Q. Can you see me now?                          |   |
|   | 22 | I would do it if I had the opportunity to show  | 22   | A. Nope. Not yet. I'm trying. I                 |   |
|   | 23 | them. It's just I'm I'm just showing            | 23   | can see you now.                                |   |
| Ī |    | Page 243  |      | Page 245  | 1 |
|   | 1  | you I'm just zooming up a photo is all I'm      | 1    | Q. Okay. All I'm trying to establish            |   |
|   | 2  | doing.  | 2    | is, can you point to where in your rebuttal     |   |
|   | 3  | Q. Right. Well, let me ask this way.            | 3    | report you indicate that you intend to rely     |   |
|   | 4  | Is there any mention in your rebuttal report of | 4    | upon the cloud scans done by Mr. Grimes to give |   |
|   | 5  | your reliance upon Mr. Grimes's point cloud     | 5    | opinions regarding the offset in the crash      |   |
|   | 6  | images that you've just shown me as a basis for | 6    | test?   |   |
|   | 7  | your opinion regarding the offset in the crash  | 7    | A. I would I think it's in the                  |   |
|   | 8  | test?   | 8    | file materials I listed. This is just one of    |   |
|   | 9  | A. No. That was his work. He                    | 9    | his file materials. He didn't remember, the     |   |
|   | 10 | already provided the measurements. I'm just     | 10   | photos we're using, you know, are his photos.   |   |
|   | 11 | showing you his measurements to support that my | 11   | I've got hundreds of photos I didn't show you,  |   |
|   | 12 | work, you know, is accurate. We didn't we       | 12   | but I'm using all of those. So this is just     |   |
|   | 13 | knew that the videos and whatnot showed it      | 13   | part of his file I think I said file Let        |   |

13 knew that the videos and whatnot showed it 13 part of his file. I think I said file. Let 14 being off. So we went through the upwards. 14 me -- let me -- let me open up -- let me open 15 up my report if I could find it. 15 And Mr. Grimes didn't even understand there was 16 16 a stamp there. So I thought that would be the Q. Sure. 17 easiest way for someone to understand it. 17 A. Man, yeah, it says I have reviewed 18 You're obviously having trouble understanding 18 and analyzed report and deposition of Grimes, 19 this cloud compare file and how it functions. report and deposition of Crosby, scan data, 20 But if I just open up his own file and show you 20 which is what we're looking at, and photos and 21 this drawing, I mean, that's all I'm doing 21 video data from the crash test performed by

22 here. 22 Grimes and Crosby. And then I -- I go on to Q. I -- I totally understand the

23

23 say one more time to say Grimes's file

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| Page 248<br>r your or all of the |
|----------------------------------|
| •                                |
|                                  |
| ying upon to give                |
| offset in the crash              |
|                                  |
| ow a photo then.                 |
|                                  |
| . Let me find which              |
| computer. It's it's              |
|                                  |
| LLA: We can see the              |
| We just probably like            |
|                                  |
| SS: Yes.                         |
| n the left, slide 16 in          |
| be the attorney can open         |
| at we gave you.                  |
| t me look.                       |
| op sharing and try               |
| en. Apparently, when I           |
| ).                               |
| een having the same              |
|                                  |
| ne bigger the computer           |
| Page 249                         |
| to always stay in                |
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| de 16 from from                  |
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| ion with this report?            |
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| ys it's Quest Post               |
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|  | Bryson, Santana and Joshi   |  | , , , , , , , , , , , , , , , , , , ,  |
|--|---|--|--|
|  | Page 250  |  | Page 252   |
| 1  | we sent that's the that's what we sent  | 1  | slide 17 shows where the tow hook hit in the   |
| 2  | you. That was their name of the file.   | 2  | crash test. And there's an orange line dropped   |
| 3  | THE WITNESS: Yep. If I said GBB,  | 3  | down from the bolt poles on the tailgate of  |
| 4  | I meant Quest. 10519 Quest Post Depo.   | 4  | where the license plate is. It's one foot  |
| 5  | MS. CANNELLA: And then aside of   | 5  | across. And we can clearly see that the tow  |
| 6  | that is, approach angle plus, photomodels plus,   | 6  | hook imprint in the accident is to the right of  |
| 7  | and then a whole bunch not a whole bunch,   | 7  | those bolt holes. And in the crash test the  |
| 8  | but a number a dozen or so or less PDFs.  | 8  | tow hook imprint is to the left of those bolt  |
| 9  | Q. I don't see that file. Sorry.  | 9  | holes.   |
| 10   | MS. CANNELLA: What's the name of  | 10   | Q. Right. And this is the position   |
| 11   | it, Bryant, did you say?  | 11   | after both crashes, not at the point of initial  |
| 12   | THE WITNESS: It is 10519 Quest  | 12   | impact?  |
| 13   | Post Depo Plus.   | 13   | A. Well, no. The one on the right is   |
| 14   | MS. CANNELLA: Yeah. But what  | 14   | initial impact because that tow hook is left   |
| 15   | inside of that file did you want?   | 15   | a dent in the tailgate right there. I mean,  |
| 16   | THE WITNESS: Let me verify.   | 16   | that's the tow hook sticks out the furthest  |
| 17   | Intended versus actual impact.  | 17   | in the front of the truck. And on the left,  |
| 18   | MS. CANNELLA: Intended impact   | 18   | that dent in the bumper is from the tow hook.  |
| 19   | versus actual impact?   | 19   | And if we go on to zoom up on it, it's got a   |
| 20   | THE WITNESS: Yes.   | 20   | little bit of white paint on it from the tape  |
| 21   | MS. CANNELLA: If you need me to   | 21   | on the front of the tow hook. And that's what  |
| 22   | get that  | 22   | bent the bumper the way it is. So that's where   |
| 23   | MR. HILL: No, I have that once  | 23   | the tow hook hit there as well. So that's  |
|  | Page 251  |  | Page 253   |
| 1  | you explained it that way.  |  |  |
| 1  | you explained it that way.  | 1  | those represent as good as accident  |
| 2  | THE WITNESS: Yeah.  | $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$   | those represent as good as accident re-constructionists can do in an initial impact  |
|  | THE WITNESS: Yeah.  | $\begin{bmatrix} 1\\2\\3 \end{bmatrix}$  | re-constructionists can do in an initial impact  |
| 2  | THE WITNESS: Yeah. MS. CANNELLA: All right.   | 2  | re-constructionists can do in an initial impact because of the the orientation of the impact   |
| 2 3  | THE WITNESS: Yeah. MS. CANNELLA: All right. Q. Is that it (indicating)?   | 2 3  | re-constructionists can do in an initial impact<br>because of the the orientation of the impact<br>and everything. So yeah, that's that's  |
| 2<br>3<br>4  | THE WITNESS: Yeah.  MS. CANNELLA: All right.  Q. Is that it (indicating)?  A. Yes, sir. Slide 16.   | 2<br>3<br>4  | re-constructionists can do in an initial impact<br>because of the the orientation of the impact<br>and everything. So yeah, that's that's<br>that's where it was pushed to. But it's also  |
| 2<br>3<br>4<br>5   | THE WITNESS: Yeah.  MS. CANNELLA: All right.  Q. Is that it (indicating)?  A. Yes, sir. Slide 16.  Q. Let's go ahead and mark this  | 2<br>3<br>4<br>5   | re-constructionists can do in an initial impact because of the the orientation of the impact and everything. So yeah, that's that's that's where it was pushed to. But it's also the piece of metal where it started. And it   |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                               | THE WITNESS: Yeah.  MS. CANNELLA: All right.  Q. Is that it (indicating)?  A. Yes, sir. Slide 16.  Q. Let's go ahead and mark this document, intended impact versus actual impact.  It's Bryson 09487 through 9508 as whatever the next exhibit is.  (Defendant's Exhibit Number 4 is marked for identification.)  Q. Okay. That slide appears to be elite page 16, although you call it slide 16.  A. That's it.  Q. All right.  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                               | re-constructionists can do in an initial impact because of the the orientation of the impact and everything. So yeah, that's that's that's where it was pushed to. But it's also the piece of metal where it started. And it also proves it's not an override because that tow hook is stuck on that bumper all the way to maximum engagement. If it was an override, then that tow hook which is located on the bumper of the truck wouldn't still be pushing on the bumper of the car.  Q. And do you have a photograph that shows the white tape that you mentioned?  A. Go to the next slide.  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | THE WITNESS: Yeah.  MS. CANNELLA: All right.  Q. Is that it (indicating)?  A. Yes, sir. Slide 16.  Q. Let's go ahead and mark this document, intended impact versus actual impact. It's Bryson 09487 through 9508 as whatever the next exhibit is.  (Defendant's Exhibit Number 4     is marked for identification.)  Q. Okay. That slide appears to be elite page 16, although you call it slide 16.  A. That's it.  Q. All right.  A. Okay.  Q. And what did you want to you said you wanted to refer to this photo as additional support for your offset opinions?  A. Yes. If you go down one slide | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | re-constructionists can do in an initial impact because of the the orientation of the impact and everything. So yeah, that's that's that's where it was pushed to. But it's also the piece of metal where it started. And it also proves it's not an override because that tow hook is stuck on that bumper all the way to maximum engagement. If it was an override, then that tow hook which is located on the bumper of the truck wouldn't still be pushing on the bumper of the car.  Q. And do you have a photograph that shows the white tape that you mentioned?  A. Go to the next slide.  Q. Yeah. And that's A. And sorry.  Q. Is that correct? A. Go down a slide or two in this presentation and we'll get up close on it. |

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|    | G. Bryan  |      | •  |
|----|---|------|--|
|    | Bryson, Santana and Joshi                       | ıa v | . Rough Country, LLC                           |
|    | Page 254  |      | Page 256                                       |
| 1  | the white on the bumper in the top image. And   | 1    | what all supports that opinion?                |
| 2  | we see the bumper is caved in because the tow   | 2    | A. Well, physics, accident                     |
| 3  | hook hit it in the crash test. But in the       | 3    | reconstruction experience, and both Grimes and |
| 4  | bottom half of this slide, that's the bumper    | 4    | Buchner did it exactly the same way. We used   |
| 5  | from the accident vehicle. And it you know,     | 5    | the tow hooks. He says, he used the tow hooks  |
| 6  | it's still got its original shape for the most  | 6    | to match them together. That's how he got his  |
| 7  | part. But you can see the tape marks up in      | 7    | 10.9 and, you know, we got our approximately a |
| 8  | that hole a lot better in that photo.           | 8    | foot, which is, you know, 11. We're we're      |
| 9  | Q. All right. Where exactly are the             | 9    | both using the same methodology to match the   |
| 10 | tape marks on the photo on the top?             | 10   | damage profile. That's how it's taught in the  |
| 11 | A. If you follow the bumper in, at              | 11   | accident reconstruction books. You you         |
| 12 | the maximum point of the bumper. So right       | 12   | match up the damage profiles on to the known   |
| 13 | there (indicating). Yep. Right there. Those     | 13   | areas. And then you know where those known     |
| 14 | white marks are from the tape. I need to        | 14   | areas were, you know, before they were         |
| 15 | let me see if I can find the image. This is     | 15   | undamaged, and that gives you your             |
| 16 | give me just a second. Oh, okay. Go to slide    | 16   | measurements. It's it's that's accident        |
| 17 | 13. There we go. There's a close-up of the      | 17   | reconstruction 101. How else could you do it?  |
| 18 | tow hook, a little bit of black on the end on   | 18   | Q. And you used a similar indication           |
| 19 | top of the white tape. And there's the white    | 19   | of the tow hook impact location on the bumper  |
| 20 | tape mark up on the bumper of the Escape.       | 20   | cover of the crash test Escape to analyze the  |
| 21 | Q. Gotcha. And that's Bryson 9499.              | 21   | offset?  |
| 22 | A. Oh good.                                     | 22   | A. We did. In my photos of the seize           |
| 23 | Q. All right. Anything else about               | 23   | bracket, we located the seize bracket on the   |
|    | Page 255  |      | Page 257                                       |
| 1  | this photograph that you're relying upon or     | 1    | bumper. If you go down to what was it?         |
| 2  | these photographs or this presentation with     | 2    | Slide 21. In my report, in my work, in my      |
| 3  | regard to the offset?                           | 3    | depo, there's a dent on the on the bumper      |
| 4  | A. Yes. Go to slide 20. Slide 20 is             | 4    | there at the bottom that corresponds to the    |
| 5  | not the not the same one I was looking at.      | 5    | four and a half inches wide seize bracket.     |
| 6  | 15 would be it. I'm sorry. 15 is kind of a      | 6    | That's working out of memory, four and a half  |
| 7  | comparison of the one we just looked at to show | 7    | inches. But there is a dent on the right       |
| 8  | where the frame horn hit in the accident        | 8    | center of that, that corresponds to that seize |
| 9  | compared to where the frame horn hit on slide   | 9    | bracket as well.                               |
| 10 | 13 that we were just talking about. And I say   | 10   | Q. Right. So that shows you that the           |
| 11 | the frame horn. I actually mean the tow hook.   | 11   | C's bracket impacted the bumper in the actual  |

5 not the -- not the same one I was looking at.
6 15 would be it. I'm sorry. 15 is kind of a
7 comparison of the one we just looked at to show
8 where the frame horn hit in the accident
9 compared to where the frame horn hit on slide
10 13 that we were just talking about. And I say
11 the frame horn. I actually mean the tow hook.
12 I apologize.
13 Q. So slide 15, which is Bryson 9501,
14 you're matching up the tow hook in the accident
15 F-250 on where you think the tow hook impacted
16 the accident Escape? That's the premise of the
17 red area?
18 A. Yes, and that gives eleven inches
19 of offset.
20 Q. And what basis do you have to
21 conclude that the point of the red arrow is

indicative of the point where the tow hook

23 impacted the accident Escape? Like what's --

13 A. Yep. As an override. So it went 14 up and over it and kept going. And the bumper 15 went out of the way and that's why it was --16 you know, it was already compromised by that 17 point in time. 18 Q. Right. But the seize bracket did 19 at least impact the bumper in the actual 20 accident? 21 MS. CANNELLA: Asked and answered. 22 A. Yeah. But in the crash test the 23 seize bracket did not hit the bumper. Only the

12 subject accident?

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| 1 tow hook hit it, and that's why it's not an 2 override. 3 Q. And so my question was did you 4 you see here and this is slide 20, Bryson 5 9506. And you see here there is the bumper 6 cover hanging down on the bottom right of the 7 crash Escape. Did you reference any tow hook 8 marks on the bumper cover to determine the 9 offset in the crash deck? 10 A. I don't I don't have enough to 11 do that with. No, sir. I just have the photos 12 that were provided. I have a better record of 13 it. I have a permanent record in the bumper 14 that I can see, so I'm happy with that. No, I 15 haven't used the bumper cover of the crash 16 test. 17 Q. That was my only question. Okay. 18 A. Sorry. 19 Q. All right. Looking here at the 20 slide we have up, slide 20, it's a rear view of 21 the accident I'm sorry, the crash test 22 Escape on the left. And looking at that 23 photograph, can you tell whether the rear seat 1 wasn't sure if it was the floor pan or the 8 hatch or what. I didn't have you know, 9 Grimes didn't measure or scan it. 10 Q. Yeah. 11 A. I don't know. It's irrelevant to 12 me because this crash test is not relevant 13 not representative of the accident. But I 14 think I said I think it was displaced some, 15 but I don't know why. 16 Q. Yeah. I was just asking what 17 would you need to look at to to confirm the 18 source of the displacement in the crash test. 19 Whether you think it's relevant on on, what 20 would you need to do to do that? 21 A. I'm hot saying he did because he 22 if I could figure it out. But of course I'd 23 (Q. Q. Yeah. I lake) just asking what 24 think I said I think it selevant on on, what 25 No no, he's he's free to use whatever he 26 wouldy ou need to do to do that? 27 (A. I'm hot saying he did because he 28 idin't measure or scan it. 29 (A. I'm hot saying he did because he 30 idin't measure or scan it. 31 the logos in his point in his cloud scans of 32 the subject accident? 33 the logos are just were the simplest to 34 mother four-minute break. 35 MS. C                                     |     | •  | ıa v |   |
|--|-----|--|------|---|
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| 18 source of the displacement in the crash test. 19 Whether you think it's relevant or not, what 20 would you need to do to do that? 21 A. I'd have to start working to see 22 if I could figure it out. But of course I'd 28 So no, he's he's free to use whatever he 19 wants. He he basically I don't think 20 he he even opined to what the offset was 21 unless he said 10.9 inches in the crash test. 22 Q. Okay. I think I think we   | 16  | Q. Yeah. I was just asking what                | 16   | things like a tow hook to back it up at the     |
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| 20 would you need to do to do that? 21 A. I'd have to start working to see 22 if I could figure it out. But of course I'd 20 he he even opined to what the offset was 21 unless he said 10.9 inches in the crash test. 22 Q. Okay. I think I think we  | 18  | source of the displacement in the crash test.  | 18   | So no, he's he's free to use whatever he        |
| 21 A. I'd have to start working to see<br>22 if I could figure it out. But of course I'd 21 unless he said 10.9 inches in the crash test.<br>22 Q. Okay. I think I think we  | 19  | Whether you think it's relevant or not, what   | 19   | wants. He he basically I don't think            |
| 22 if I could figure it out. But of course I'd 22 Q. Okay. I think I think we  | 20  | would you need to do to do that?               | 20   | he he even opined to what the offset was        |
|  | 21  | A. I'd have to start working to see            | 21   | unless he said 10.9 inches in the crash test.   |
|  | 100 | if I could figure it out. But of course I'd    | 22   | Q. Okay. I think I think we                     |
| 23 need to see the inside of the vehicle, which 23 misfired there. I was asking about the subject  | 22  | $\epsilon$                                     |      |   |

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|    | <u> </u>  |    |  |
|----|---|----|--|
|    | Page 262  |    | Page 264                                       |
| 1  | crash.  | 1  | provided, he provided that measurement.        |
| 2  | A. Oh.  | 2  | Q. Right. You keep switching back              |
| 3  | Q. Not not the crash test. So it                | 3  | between the crash test and the subject         |
| 4  | was the subject crash. What evidence do you     | 4  | accident. I'm not talking about the crash      |
| 5  | have that Mr. Grimes used the distance between  | 5  | test. I'm talking about the subject accident.  |
| 6  | the logos at maximum crush to determine the     | 6  | In Mr. Grimes's analysis of the subject        |
| 7  | offset in the actual crash?                     | 7  | accident. You testified earlier today that you |
| 8  | A. Well, that's it was 10.9 inches              | 8  | believed his methodology for coming up with    |
| 9  | according to him because that is would be       | 9  | 10.9 in the subject crash was based upon his   |
| 10 | the offset. I don't know if he used that or     | 10 | point cloud scans of the subject vehicles and  |
| 11 | whether he used other things. I don't think he  | 11 | the measurement of the distance between the    |
| 12 | had ever seen the logo imprints if he was in    | 12 | logos in those scans. And I'm saying, do you   |
| 13 | his depo. He was probably using the tow hooks   | 13 | have any basis to believe that he used the     |
| 14 | or something similar. But you know, they're     | 14 | distance between the logos and the point scans |
| 15 | all geometrically tied together. So whether he  | 15 | of the actual vehicles to come up with the     |
| 16 | is using it or not, that's the answer. I'm not  | 16 | offset in the actual crash?                    |
| 17 | saying he did use it. I'm saying that's         | 17 | A. In the actual crash, whether he             |
| 18 | that's something I can use to easily show some  | 18 | clicked on the logos or not, they're in his    |
| 19 | additional work within the accident. I          | 19 | point cloud. Similarly, you can measure        |
| 20 | don't I think he was probably using the tow     | 20 | between them. I'm not saying he used those.    |
| 21 | hooks.  | 21 | I'm not even saying he looked at those. He     |
| 22 | Q. Okay. So if we read your                     | 22 | might have just been using the the tow hooks   |
| 23 | deposition transcript from earlier today and it | 23 | and things that he testified to. But as I sit  |
|    | Page 263  |    | Page 265                                       |
| 1  | says that you opined that Mr. Grimes used the   | 1  | here, I haven't to my knowledge, I haven't     |
| 2  | distance between the logos and his scans of the | 2  | seen his point cloud match for the accident.   |
| 3  | actual subject vehicles to determine the offset | 3  | Q. Okay.                                       |
| 4  | in the actual crash, that would be a misreading | 4  | A. If I can find it though, I could            |
| 5  | or a misinterpretation of your testimony?       | 5  | do a better job of answering the question.     |
| 6  | You you don't know whether he used that or      | 6  | Q. Sure. Did you use your scans                |
| 7  | not to come up with the 10.9 number that he     | 7  | your point cloud data from the actual crash to |
| 8  | decided was the offset in the subject crash?    | 8  | measure the distance between the logos at      |
| 9  | A. I can look at it both ways. Yes,             | 9  | maximum crush to calculate your offset in the  |
| 10 | that is a good accurate statement I made. And   | 10 | subject crash?                                 |
| 11 | we can also look at it where it is inaccurate.  | 11 | A. No. We we didn't calculate the              |
| 12 | The bottom line is the only point cloud match   | 12 | offset. We matched the vehicles together to    |
| 13 | that he provided that could be opened and used  | 13 | demonstrate the offset.                        |
| 14 | shows 16 inches between the logos. There isn't  | 14 | Q. Right.                                      |
| 15 | one that shows 10.9 and there's nothing in his  | 15 | A. And then then of course we can              |
| 16 | file that's a point cloud where they match that | 16 | measure between any references on the vehicle  |
| 17 | he provided that can show 10.9. Every every     | 17 | we want to get it. When we actually went back  |
| 18 | reference that we use would give 16. I just     | 18 | and did the eleven inches, I don't I don't     |
| 19 | use those. And they are his measurements        | 19 | remember if we were I'm pretty sure we were    |

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20 using the logos before that. But we could have

22 because you want to check it a few times, a few

23 different ways. I don't remember exactly what

21 done it two or three other ways. But -- but

20 because they're part of the point cloud. But

21 he didn't reference them. So I agree he didn't

22 reference them, and I'm not saying he said he

23 referenced them. I'm saying, in what he

|  | <u> </u>   |   |  |
|--|--|---|--|
|  | Page 266   |   | Page 268   |
| 1  | the process was. But we got, you know, eleven.   |   | A. Right. At at the time the   |
| 2  | I think there's something I think there's  | 2   | simulation was set up, I could have opened it,   |
| 3  | even something I think we are measuring the  | 3   | measured it or Ms. Porter could have done that   |
| 4  | logos for the eleven.  | 4   | and then put it in the simulation. In other  |
| 5  | Q. Can you say for certain how you   | 5   | words, that's the way it would have worked   |
| 6  | first of all, it's my understanding in your  | 6   | because we have the measurement contained  |
| 7  | original report and your original deposition   | 7   | not in a contained simulation, but contained in  |
| 8  | and in your original simulation you determined   | 8   | the point clouds.  |
| 9  | the offset was twelve inches. And you indicate   | 9   | Q. Right. So you at the time you   |
| 10   | that you actually determined the offset in the   | 10  | ran the original simulation, you went through  |
| 11   | subject crash to be eleven.  | 11  | that process and you decided to input twelve   |
| 12   | A. Okay. It's almost an  | 12  | inches as the offset in the original   |
| 13   | understanding or a semantics issue. In my  | 13  | simulation?  |
| 14   | deposition I didn't have the offset recorded or  | 14  | A. I think we probably put in eleven.  |
| 15   | written down. I was asked so I took a ruler to   | 15  | But like I said, I don't have that file  |
| 16   | our scale drawings and and said, hey, it's   | 16  | anymore. Now, since since we redid it, I   |
| 17   | approximately a foot. You know, it's very hard   | 17  | said I want to be true to what I said in the   |
| 18   | on those drawings to see an inch at the size   | 18  | depo. And that errs in the favor of of   |
| 19   | they were printed out for. So once I said a  | 19  | producing more crush.  |
| 20   | foot, I've been true to a foot. But I know   | 20  | Q. Yep.  |
| 21   | that Grimes said 10.9. And I've checked our  | 21  | A. So I gone with the twelve because   |
| 22   | work since then, and I'm like, okay, if we   | 22  | that's what I said in my depo, but if you  |
| 23   | really push our work and our clouds and  | 23  | you want to know what I believe it is in my  |
|  | Page 267   |   |  |
| 1  |  |   | Page 269   |
| 1  | •  | 1   | Page 269 heart, I believe it's 11. But both of them are  |
|  | everything, 11 inches is the right number.   | 1 2   | heart, I believe it's 11. But both of them are   |
| 1 2 3  | everything, 11 inches is the right number.<br>So so I'm not changing, I'm just able to be  | 1 2 3   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one  |
| 2 3  | everything, 11 inches is the right number.<br>So so I'm not changing, I'm just able to be<br>more accurate because I went back and did it  |   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.   |
| 2<br>3<br>4  | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.   | 3   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we   |
| 2<br>3<br>4<br>5   | everything, 11 inches is the right number.  So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the  | 3<br>4<br>5   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your   |
| 2<br>3<br>4<br>5<br>6  | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure   | 3 4   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of  |
| 2<br>3<br>4<br>5<br>6<br>7   | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles  | 3<br>4<br>5   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And   | 3<br>4<br>5<br>6<br>7<br>8  | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I   | 3<br>4<br>5<br>6<br>7<br>8<br>9   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the   | 3<br>4<br>5<br>6<br>7<br>8<br>9   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | everything, 11 inches is the right number.  So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                                     | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12                                     | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                               | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                               | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven,  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13                               | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14                         | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                   | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                   | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15                   | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's and it's contained in the work with all the   | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16             | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to come to that conclusion?  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17       | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's and it's contained in the work with all the millions of other measurements that are in  | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17       | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to come to that conclusion?  A. Well, I'll give you I've   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's and it's contained in the work with all the millions of other measurements that are in there. I just had not formally presented it. | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to come to that conclusion?  A. Well, I'll give you I've provided you an image of it, of one of them and   |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's and it's contained in the work with all the millions of other measurements that are in there. I just had not formally presented it. | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to come to that conclusion?  A. Well, I'll give you I've provided you an image of it, of one of them and one that's easy for the jury and everybody to |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | everything, 11 inches is the right number. So so I'm not changing, I'm just able to be more accurate because I went back and did it more precisely with a better tool.  To be clear, the offset is determined by the damage match on the vehicles. I don't measure it and then decide how to put the vehicles together. I put the vehicles together. And then if I want it, I open up the file and I measure it. In other words, the the physics, the geometry of the vehicles determines it. So it's it's an oversight on my part not to have recorded it, written it down or saved that measurement, but it's a product of the of the work we do. It's and it's contained in the work with all the millions of other measurements that are in there. I just had not formally presented it. | 3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18 | heart, I believe it's 11. But both of them are approximately 11, approximately 12. Either one is fine.  Q. Right. But you don't know as we sit here today what offset you used in your original simulation that formed the basis of your your your report in this case?  A. That's right. I would say 0.9 plus or minus 0.1 along in there depending on what we measured that day.  Q. Okay. Right. And now that you say that you've looked at it closer after your deposition and you think it's closer to eleven, what how did you come to that conclusion?  What what was the methodology you used to come to that conclusion?  A. Well, I'll give you I've provided you an image of it, of one of them and   |

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Q. I can do it. Hold on.

23

22 work you just described in order to decide what 22 try to open it.

23 offset to use in your original simulation.

|    |   |    | · · · · · · · · · · · · · · · · ·              |
|----|---|----|--|
|    | Page 270  |    | Page 272                                       |
| 1  | A. I I produced something that was              | 1  | A. Yes.  |
| 2  | simple.   | 2  | Q. On page two of the crash test               |
| 3  | Q. Yeah. All right. Can you see                 | 3  | offset.  |
| 4  | the this is the we've marked this as an         | 4  | A. Yes.  |
| 5  | exhibit somewhere along the lines. This is      | 5  | Q. How did you determine the midpoint          |
| 6  | crash test offset, that's what you're referring | 6  | of the Ford logo you can see in this           |
| 7  | to?   | 7  | photograph?                                    |
| 8  | A. Yeah. Slide two.                             | 8  | A. It's visually. It could be a                |
| 9  | Q. All right. Slide two. This slide             | 9  | little bit to the left of where it is. But if  |
| 10 | here?   | 10 | I missed it, I wanted to miss it a little bit, |
| 11 | A. Yes.   | 11 | you know, to the right. So it's it's a         |
| 12 | Q. All right. And so this appears to            | 12 | visual determination. Trying to the bottom     |
| 13 | be a measurement of a photograph or is this     | 13 | of the arc in the left and the center of the   |
| 14 | a scan of the subject, Escape?                  | 14 | logo in the right because they are about the   |
| 15 | A. This is a this is a photomodel               | 15 | same level and measure it.                     |
| 16 | of the Escape, the accident Escape where we can | 16 | Q. Okay. So so you didn't measure              |
| 17 | see the logo imprint of the Ford on it, of the  | 17 | the width of the Ford logo here and determine  |
| 18 | Ford F-250 on it. So in the in the process      | 18 | the exact midpoint of the logo when you input  |
| 19 | of doing our work for the rebuttal, we had to   | 19 | the points for the photomodel to do the        |
| 20 | make a photomodel of the Ford with a logo on    | 20 | measure. You just eyeballed it?                |
| 21 | it. We've already talked about that.            | 21 | A. Right. I just clicked on the                |
| 22 | Q. Right.                                       | 22 | center and then clicked on the bottom of the   |
| 23 | A. And so then we made a measurement            | 23 | arc on the left. If somebody wants to do it    |
|    | Page 271  |    | Page 273                                       |
| 1  | on here, and we got a little less than eleven   | 1  | again and come up with a little bit different  |
| 2  | inches.   | 2  | number. I'm okay with that.                    |

- 2 inches.
- Q. All right. And is this the --
- 4 it's not a photograph that you put in the
- 5 photomodel. It's a -- it's a point cloud,
- 6 correct, scan?
- 7 A. You use the scan. But you also
- 8 put in hundreds of photos. And the --
- 9 Q. Okay.
- 10 A. If your scan is accurate and your
- 11 photos are decent, it can -- it can create a
- 12 photomodel, which is more than just a point
- 13 cloud.
- 14 Q. I got you. So it uses both the
- 15 point cloud and the photographs and all of that
- 16 combined?
- 17 A. Yes.
- Q. Okay. And then the software then
- 19 based upon you indicating the points will tell
- 20 you the 3D distance between the two points?
- 21 A. Right.
- Q. And that's what the pink line
- 23 is -- is represents?

- 2 number, I'm okay with that.
- 3 Q. Sure. And then as far as the
- 4 bottom of the arc, you just eyeballed that.
- 5 That's in your mind an approximate bottom of
- 6 the middle of the arc of the F-250?
- 7 A. Right. If I were going to do it
- 8 again, I might move them both left about a
- 9 quarter of an inch, but it's still going to be
- 10 eleven inches. Well, this is actually a little
- 11 less than eleven inches. So it's going to be
- 11 less than eleven inches. So it's going to be
- 12 right at eleven.
- 13 Q. All right. Did you undertake any
- 14 other methodology to determine the offset in
- 15 the subject crash?
- 16 A. Other than using our scan, no.
- 17 But it's not written down or recorded. It's
- 18 just clicking on a scan. I used the scan of a
- 19 depo, say a twelve, and then I'm using this to
- 20 get a little less than eleven. I'm -- I'm
- 21 convinced eleven is the right number.
- Q. All right. What is the relevance

23 of the crash test offset not matching the

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|   |    | Bryson, Santana and Joshi                       | ua v                                   | . Rough Country, LLC                            |
|---|----|---|--|---|
|   |    | Page 274  |  | Page 276  |
|   | 1  | subject crash offset? Why is that relevant to   | 1                                      | Q. Okay. And so you're not able to              |
|   | 2  | you?  | 2                                      | quantify the difference in crush that would be  |
|   | 3  | A. You're engaging less of the back             | 3                                      | caused by the alleged five plus or minus one    |
|   | 4  | of the Escape, so you're still you're still     | 4                                      | inch additional offset that occurred in the     |
|   | 5  | hitting, you know, at the frame level. But      | 5                                      | crash test?                                     |
|   | 6  | you're engaging less of the back of the Escape. | 6                                      | A. No.  |
|   | 7  | So you know, it's it it probably                | 7                                      | Q. Okay. Hold on one second. I                  |
|   | 8  | overstates the crush from that, just one        | 8                                      | thought somebody on here was sending me a chat. |
|   | 9  | observation. And what we'd like to see is a     | 9                                      | So apparently not. So I'm sorry.                |
|   | 10 | is something that doesn't have unnecessary      | 10                                     | Is one way that you could make an effort to     |
|   | 11 | variables. We have a lot of variables in the    | 11                                     | quantify the difference in crush that would be  |
|   | 12 | crash test, too many to actually get a final    | 12                                     | attributed to an increase in offset would be to |
|   | 13 | opinion out of anything other than that, hey,   | 13                                     | run an HVE simulation, use your exact           |
|   | 14 | it didn't override, which we already knew it    | 14                                     | parameters that you used in your simulation,    |
|   | 15 | wasn't going to override, you know, just based  | 15                                     | and increase the offset and then see what the   |
|   | 16 | on the structure of the vehicles and their      | 16                                     | program spit out as far as an increase in       |
|   | 17 | original design. We didn't need a crash test    | 17                                     | crush?  |
|   | 18 | for that, but other that's that's what it       | 18                                     | A. I don't know.                                |
|   | 19 | provides. Beyond that, I don't know that it     | 19                                     | Q. So you dont know if the software             |
|   | 20 | provides information.                           | 20                                     | would be able to tell you the difference in     |
|   | 21 | Q. Okay. And when you say it                    | 21                                     | crush based upon a difference in offset?        |
|   | 22 | probably overstates the crush, have you         | $\begin{vmatrix} 21\\22\end{vmatrix}$  | A. Not to the level the crash test              |
|   | 23 | undertaken any work to determine whether it     |  | would have done with accuracy. I think          |
|   | 23 | ·   | 23                                     |   |
|   | 1  | Page 275  | 1                                      | Page 277  |
|   | 1  | does overstate the crush?                       |  | intuitively we all know there would be more     |
|   | 2  | A. Well, logic would say that it                | $\begin{vmatrix} 2 \\ 2 \end{vmatrix}$ | crush. But we don't know if it would be         |
|   | 3  | would. But since we don't have a crash that     | 3                                      | representative. And we don't know if it would   |
|   | 4  | represents, you know, the proper elevation, the | 4                                      | be a reliable methodology because we've been    |
|   | 5  | proper over overlap, all we can say             | 5                                      | through that already. That's that's a a         |
|   |    | is that it probably does because as Mr. Grimes, | 6                                      | simulation compared to a crash test. Grimes     |
|   | _  | he confirmed that in his deposition. We know    | 7                                      | used a crash test to try to compare the         |
|   | 8  | that we know historically that the less         | 8                                      | accident. And now you're going to do a          |
|   | 9  | overlap we have, the more crush we have because | 9                                      | complete new analysis to compare a simulation   |
|   | 10 | the width and the depth are the two things that | 10                                     | to a crash test. That's that's not possible     |
|   | 11 | develop crush that determine crush. If we       | 11                                     | to do sitting here. We've been through this.    |
|   | 12 | have less width, we have more crush, because    | 12                                     | Q. Well, I'm not asking you about               |
|   | 13 | they're mathematically related in the physics,  | 13                                     | that. I'm asking you, you could run an HVE      |
|   | 14 | in the calculations that we we use in           | 14                                     | simulation with increased offset and compare    |
|   | 15 | accident reconstruction. So the formulas we     | 15                                     | that to your other simulation, and so you'd be  |
|   | 16 | have state that there will be less will be      | 16                                     | comparing the exact identical simulations with  |
|   | 17 | more crush in the test because it has less      | 17                                     | the only change being the offset. That's        |
|   | 18 | offset or more offset.                          | 18                                     | possible. Correct?                              |
|   | 19 | Q. And did you make any effort to               | 19                                     | A. Nope. For the reasons we talked              |
|   | 20 | calculate the the increase in crush that you    | 20                                     | about, I cannot agree with you on that.         |
|   | 21 | say would be attributed to an increase in       | 21                                     | Q. Okay.  |
|   | 22 | offset?   | 22                                     | A. Thank you.                                   |
| Į |    |   |  |   |

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Q. Yeah. So it's not possible to run

23

A. No, I have not.

23

| _ |  | Diyson, Santana and Josh  |  |   |
|---|--|---|--|---|
|   |  | Page 278  |  | Page 280  |
|   | 1  | your exact same simulation, but increase the  | 1  | characterizing his testimony or   |
|   | 2  | offset to 17 inches. That's not   | 2  | mischaracterizing it.   |
|   | 3  | MS. CANNELLA: Objection. Asked  | 3  | MR. HILL: I've asked him that.  |
|   | 4  | and answered multiple times for hours on end.   | 4  | Q. Would a do you have an opinion   |
|   | 5  | Q. You can answer.  | 5  | as to whether an HVE simulation run exactly the   |
|   | 6  | A. I've answered that as good as I  | 6  | way you ran the simulation in this case, your   |
|   | 7  | can. I don't have any more to say. I mean   | 7  | amended simulation, with the only change being  |
|   | 8  | I I do not I cannot say that we can do  | 8  | to increase the offset to the offset that you   |
|   | 9  | that, no, for all of the reasons I've been  | 9  | said occurred in the crash test, do you have an   |
|   | 10   | going over.   | 10   | opinion as to whether that simulation would be  |
|   | 11   | Q. And therefore you cannot say   | 11   | a proper scientific methodology to evaluate   |
|   | 12   | whether that would be an appropriate  | 12   | what the simulation would produce at that   |
|   | 13   | methodology for verifying whether the HVE   | 13   | different offset?   |
|   | 14   | software is a scientifically reliable   | 14   | MS. CANNELLA: Object to the form  |
|   | 15   | methodology for predicting crush?   | 15   | of the question. Asked and answered. Outside  |
|   | 16   | A. Pardon?  | 16   | the form the scope of his supplemental  |
|   | 17   | Q. Yeah. If you can't say that any  | 17   | testimony. He did not run an HVE on the   |
|   | 18   | variation in offset is necessarily going to be  | 18   | Exponent crash test, and he has explained   |
|   | 19   | a reliable HVE test, that's what you're saying  | 19   | multiple times why he cannot tell you whether   |
|   | 20   | is that the only reliable HVE test you know of  | 20   | it would be an accurate methodology as he sits  |
|   | 21   | or simulation you know of is the one you ran.   | 21   | here today. This is a conversation we already   |
|   | 22   | And if you change the offset, you can't verify  | 22   | had, and you said you were done with this line.   |
|   | 23   | whether that simulation would be a reliable and   | 23   | MR. HILL: Yeah, I'm asking in a   |
| t |  | Page 279  |  | Page 281  |
|   |  |   | l .  |   |
|   | 1  | _   | 1  | -   |
|   |  | accurate simulation?  | 1 2  | different way now. I'm I'm not talking  |
|   | 2  | accurate simulation?  MS. CANNELLA: Objection. He did   | 2  | different way now. I'm I'm not talking about comparing it to the crash test. All  |
|   | 2 3  | accurate simulation?  |  | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a  |
|   | 2  | accurate simulation?  MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.   | 2 3  | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon  |
|   | 2<br>3<br>4<br>5   | accurate simulation?  MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.  Q. All right. You can explain it.  | 2<br>3<br>4  | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon the level of offset. And I'm asking him, is it   |
|   | 2<br>3<br>4  | accurate simulation?  MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.  Q. All right. You can explain it.  MS. CANNELLA: What's the  | 2<br>3<br>4<br>5   | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon the level of offset. And I'm asking him, is it his opinion that it's impossible to use HVE to  |
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|   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | accurate simulation?  MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.  Q. All right. You can explain it.  MS. CANNELLA: What's the question? I mean, object to the form of the question. Misstates his testimony.   | 2<br>3<br>4<br>5<br>6  | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon the level of offset. And I'm asking him, is it his opinion that it's impossible to use HVE to determine how much additional crush occurs per a set distance of offset.   |
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|   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | accurate simulation?  MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.  Q. All right. You can explain it.  MS. CANNELLA: What's the question? I mean, object to the form of the question. Misstates his testimony.  Q. Go ahead. Answer it if you can.  MS. CANNELLA: No. Don't answer it, Bryant. It doesn't it's not a question it's not a question that makes any sense because he never said that. So how can  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon the level of offset. And I'm asking him, is it his opinion that it's impossible to use HVE to determine how much additional crush occurs per a set distance of offset.  Q. Is it your opinion that that's impossible to use HVE for that type of determination?  MS. CANNELLA: Same objections. Q. Go ahead.   |
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|   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | MS. CANNELLA: Objection. He did not say that the only reliable HVE he's ever seen is the one that he ran.  Q. All right. You can explain it.  MS. CANNELLA: What's the question? I mean, object to the form of the question. Misstates his testimony.  Q. Go ahead. Answer it if you can.  MS. CANNELLA: No. Don't answer it, Bryant. It doesn't it's not a question it's not a question that makes any sense because he never said that. So how can he answer that if you're saying he said that and he didn't say that.  MR. HILL: Are you instructing him not to answer?  MS. CANNELLA: Yes, I'm instructing him not to answer because it's getting crazy. You keep telling him your   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | different way now. I'm I'm not talking about comparing it to the crash test. All right? I'm saying he says that there is a differentiation in crush that occurs based upon the level of offset. And I'm asking him, is it his opinion that it's impossible to use HVE to determine how much additional crush occurs per a set distance of offset.  Q. Is it your opinion that that's impossible to use HVE for that type of determination?  MS. CANNELLA: Same objections. Q. Go ahead. A. I answered the question. It's not using HVE. I just used standard accident reconstruction calculation methodologies for crush and width. There is a relationship between the two. And when width is decreased, crush goes up by every formula that I've ever seen written in accident reconstruction.  |

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|----------|---|------|---|
|          | Page 282  |      | Page 284  |
| 1        | many times already. I cannot tell you that we       | 1    | could there be a scenario where HVE, as you     |
| 2        | could use the simulation for that, the way          | 2    | increase the offset, it doesn't match the       |
| 3        | you're asking and I don't because that's            | 3    | mathematics that show how much crush should     |
| 4        | a that's a new analysis, and I'm not willing        | 4    | increase as you increase the offsets?           |
| 5        | to to state we can. I'm not even willing to         | 5    | A. You're asking a blind question               |
| 6        | start doing the analysis here. But I did try        | 6    | with information that I don't know what you're  |
| 7        | to give you some examples earlier, my concerns.     | 7    | asking about. You won't even let me relate it   |
| 8        | But no, I don't have an opinion about that.         | 8    | to the crash test. So you know, we've we've     |
| 9        | And but I do have an opinion that decreasing        | 9    | used it to change one variable, the height, so  |
| 10       | width increased width of overlap increases          | 10   | that we got contact. And I think it's very      |
| 11       | crush. And we know that because every single        | 11   | robust for that near with with lots of          |
| 12       | crush formula that's ever been written that I'm     | 12   | overlap between the vehicles. That's what we    |
| 13       | aware of that we use our calculators for,           | 13   | use it for. Beyond that, all of these other     |
| 14       | would would show that there is a                    | 14   | things, I I don't have any opinions about       |
| 15       | relationship that when the width is is              | 15   | those. I can't help you.                        |
| 16       | decreased, the crush increases.                     | 16   | Q. Okay.  |
| 17       | Q. Would you agree that in order for                | 17   | A. But I can tell you that that,                |
| 18       | the HVE simulation to be a reliable methodology     | 18   | you know, there is a relationship between crush |
| 19       | as you've used in this case, that software          | 19   | and width and the program will generally follow |
| 20       | would need to follow that same relationship you     | 20   | that. But there are other concerns that have    |
| 21       | just mentioned that the calculations show as a      | 21   | to be all addressed before we can start         |
| 22       | part of science, it would need to follow that       | 22   | agreeing to to what you're asking me to         |
| 23       | same methodology in order to mirror the actual      | 23   | agree to. I can't do that.                      |
|          | Page 283  |      | Page 285  |
| 1        | science that you know of with regards to the        | 1    | Q. What is your basis for your                  |
| 2        | truck?  | 2    | opinion that changing the height of the vehicle |
| 3        | MS. CANNELLA: Object to the form                    | 3    | allows HVE to be a robust simulation program    |
| 4        | of the question as vague and confusing.             | 4    | and to properly simulate the hypothetical crash |
| 5        | O. Go ahead.  | 5    | with the height being changed? What's your      |
| 6        | A. In general we know that we'll                    | 6    | basis for that opinion?                         |
| 7        | follow that generic methodology, but that's         | 7    | MS. CANNELLA: Object to the form                |
| 8        | generic. In other words, but to apply it to a       | 8    | of the question as vague, confusing.            |
| 9        | particular crash test, which is what you're         | 9    | Q. Go ahead.                                    |
| 10       | asking me to do, you would have to go through a     | 10   | A. Because we now once we remove                |
| 11       | whole process to see whether it was applicable      | 11   | the lift kit, we've got now a bumper level,     |
| 12       | and reasonable.                                     | 12   | frame level to frame level, bumper level        |
| 13       | Q. I'm not  | 13   | impact. The simulation program, I've been       |
| 14       | A. I'm sorry. I haven't done that.                  | 14   | using it since 19 1991, so over 30 years for    |
| 15       | And so the answers I've given have been true        | 15   | things like this, and it's been acceptable      |
| 16       | and accurate today. We're not we understand         | 16   | since for that period of time. There's been     |
| 17       | how the simulation works. We understand how         | 17   | plenty of papers written to validate its        |
|          | the calculations work. That's fine. We just         | 18   | reasonableness. It came with the crush          |
| 110      | _   | 19   | stiffness coefficients that were needed to do   |
| 18       | can't make the leap and is it a leap voil re        |      |   |
| 19       | can't make the leap and is it a leap you're asking. |      |   |
| 19<br>20 | asking.   | 20   | it. All I had to do was tell it the speed at    |
| 19       |   |      |   |

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23 using it well within its constraints. And I

23 simple -- I won't use the term simple, but

|                            | Bryson, Santana and Josh   | ua v   | . Rough Country, LLC   |
|----------------------------|--|--|--|
|                            | Page 286   |  | Page 288   |
|                            | 1 don't have any concerns about how the vehicle  | 1  | that HVE that your HVE simulation in this  |
|                            | 2 was contacted because I'm getting that good  | 2  | case is accurate? Is there any way you know of   |
|                            | 3 that good match up that I think would have   | 3  | other than citing to the fact that you believe   |
|                            | 4 happened in the accident had it not been a   | 4  | there's articles that say it's a proper  |
|                            | 5 not jacked up, but raised, lifted. So I think  | 5  | software for this application? Is there  |
|                            | 6 I'm using the program exactly as it's supposed   | 6  | anything you can do beyond what you've read or   |
|                            | 7 to be used for for this particular purpose   | 7  | what others have said in order to test or  |
|                            | 8 and how I've seen it used before.  | 8  | verify that your simulation was accurate?  |
|                            | 9 Q. And if you change the offset, you   | 9  | A. This is a tool that we commonly   |
| 1                          | · · · · · · · · · · · · · · · · · · ·  | 10   | use. It's generally accepted in the industry.  |
| 1                          | -  | 11   | I'm using it simply as it would normally be  |
| 1                          |  | 12   | used in accident reconstruction to demonstrate   |
| 1                          |  | 13   | a a crash, to simulate a crash. There is   |
| 1                          | 8  | 14   | nothing special about what I'm doing. I've got   |
| 1                          | •  | 15   | the shape of the vehicles. I have the crush  |
| 1                          |  | 16   | stiffness for the vehicles that came with the  |
| 1                          | ·  | 17   | program. I'm hitting it at a known speed. And  |
| 1                          | -  | 18   | i'm producing a known delta-V. It is unless  |
| 1                          | _  | 19   | you call into question the whole program, which  |
| $\frac{1}{2}$              |  | 20   | it's been used for I've been using it for 30   |
| $\frac{1}{2}$              | , ,  | 21   | years and never had a problem using it or  |
| $\frac{1}{2}$              | ·  | 22   | having it utilized. I did vet it before I used   |
| $\frac{1}{2}$              | •  | 23   | it. I made sure it was appropriate. There's  |
| -                          |  | 23   |  |
|                            | Page 287<br>1 different offset level?  | 1  | Page 289 other programs that I might use for other types   |
|                            | 2 MS. CANNELLA: Objection. I'm   | 2  | of things. You know, you're it's kind of   |
|                            | 3 sorry, I feel like you're drawing this   | 3  | like what you did earlier when we were asked   |
|                            | 4 objection, but don't answer it anymore. We're  | 4  | about how can you tell where an impact was.  |
|                            | 5 done with this. I can point to the Court to  | 5  | You look at maximum engagement crush. Well,  |
|                            | 6 hours of this question over and over again.  | 6  | that's what we use. We don't get to the  |
|                            | 7 And we're not doing it anymore.  | 7  | vehicle's hit. We use maximum engagement crush   |
|                            | 8 MR. HILL: Are you instructing him  | 8  | and we follow generally accepted principles.   |
|                            | 9 not to answer?   | 9  | It's generally accepted to use computer  |
| 1                          |  | 10   | simulations like HVE, S-Mac, SIMON in the  |
| 1                          | ·  | 11   | industry. It's one of our normal calculation   |
|                            | 1 live o clock. We we been going for since   | 11   | industry. It's one of our normal calculation   |
|                            | 2 ten o'clock this morning and we've had many  | 12   | -  |
| 1                          | 2 ten o'clock this morning and we've had many, 3 many discussions about this exact tonic   | 12   | tools just like a calculator is a normal   |
| 1                          | 3 many discussions about this exact topic.   | 13   | tools just like a calculator is a normal calculation tool. If it had not been generally  |
| 1                          | many discussions about this exact topic.  MR. HILL: That's great. We'll  | 13<br>14                                     | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we  |
| 1 1                        | many discussions about this exact topic.  MR. HILL: That's great. We'll  take it up with the Court. We've had hours of   | 13<br>14<br>15                               | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we did it by hand or on a calculator. We got a  |
| 1<br>1<br>1                | many discussions about this exact topic.  MR. HILL: That's great. We'll  take it up with the Court. We've had hours of discussions about it because he refuses to  | 13<br>14<br>15<br>16                         | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we did it by hand or on a calculator. We got a crush level. Then we did it with a simulation  |
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| 1<br>1<br>1<br>1<br>1      | many discussions about this exact topic.  MR. HILL: That's great. We'll  take it up with the Court. We've had hours of  discussions about it because he refuses to  answer the question, but that's fine.  MS. CANNELLA: I've even answered  it for you. I've rephrased rephrased what   | 13<br>14<br>15<br>16<br>17<br>18<br>19       | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we did it by hand or on a calculator. We got a crush level. Then we did it with a simulation program. We got different results. And for mine I'm using the higher of the two. I'm using it as just an alternative calculation   |
| 1<br>1<br>1<br>1<br>1<br>2 | many discussions about this exact topic.  MR. HILL: That's great. We'll  take it up with the Court. We've had hours of  discussions about it because he refuses to  answer the question, but that's fine.  MS. CANNELLA: I've even answered  it for you. I've rephrased rephrased what  he said. So I don't know what else you want,                                       | 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we did it by hand or on a calculator. We got a crush level. Then we did it with a simulation program. We got different results. And for mine I'm using the higher of the two. I'm using it as just an alternative calculation methodology, which is appropriate. So I |
| 1<br>1<br>1<br>1<br>1<br>1 | many discussions about this exact topic.  MR. HILL: That's great. We'll  take it up with the Court. We've had hours of  discussions about it because he refuses to  answer the question, but that's fine.  MS. CANNELLA: I've even answered  it for you. I've rephrased rephrased what  he said. So I don't know what else you want,  Mr. Hill. This is a wild experience. | 13<br>14<br>15<br>16<br>17<br>18<br>19       | tools just like a calculator is a normal calculation tool. If it had not been generally accepted, then I wouldn't be using it. But we did it by hand or on a calculator. We got a crush level. Then we did it with a simulation program. We got different results. And for mine I'm using the higher of the two. I'm using it as just an alternative calculation   |

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23 accurate for what it was designed to be used

Q. How can you independently verify

23

|          | Bryson, Santana and Joshua V. Rough Country, LLC                                    |                                       |  |  |  |
|----------|---|---------------------------------------|--|--|--|
|          | Page 290  |                                       | Page 292   |  |  |
| 1        | for. And I think that if we if I go do the  | 1                                     | do every day that are based on the works of  |  |  |
| 2        | research, I'll find plenty of papers that show                                      | 2                                     | Campbell and others in the past, well, I'd have                                      |  |  |
| 3        | that to you. I've been using it for 30 years.                                       | 3                                     | to go back and do all of the work. That  |  |  |
| 4        | Q. Are there any other simulation   | 4                                     | that groundwork has been laid by others,   |  |  |
| 5        | software programs you could use other than HVE?                                     | 5                                     | otherwise this simulation program wouldn't   |  |  |
| 6        | A. Let's do something else.   | 6                                     | be having been used by me for 30 years and   |  |  |
| 7        | Mr. Grimes, I think, claims to be an instructor                                     | 7                                     | others in the industry, like Mr. Grimes. I'm   |  |  |
| 8        | in it. Who is he instructing if it's if   | 8                                     | not going to go back and redo all of the   |  |  |
| 9        | it's not a valid tool for accident  | 9                                     | validation of the program. That's been done  |  |  |
| 10       | reconstruction, why is he using it? Why is he                                       | 10                                    | by others. Just like the crush calculations  |  |  |
| 11       | instructing it? It's he's used it. He   | 11                                    | that we normally do are and the methodologies  |  |  |
| 12       | knows it's valid. It's a good tool for the  | 12                                    | that we use in the book over there. The book   |  |  |
| 13       | purpose. His only complaint was that it was an                                      | 13                                    | behind me says HVE is a robust method. You   |  |  |
| 14       | override. I can show you why it's not an  | 14                                    | know, I'm I'm using a tool that's generally  |  |  |
| 15       | override. It's clearly not an override. And   | 15                                    | accepted in the industry in a way that's   |  |  |
| 16       | if if you take his objection away that it's   | 16                                    | generally accepted in the industry. I don't  |  |  |
| 17       | an override, then he is as far as I can tell  | 17                                    | know what else I I mean, I'm not going to go   |  |  |
| 18       | agreeing to use it because he had no other  | 18                                    | back and and redo all of that history of   |  |  |
| 19       | objection in his deposition to it.  | 19                                    | work and research. And I've paid people to   |  |  |
| 20       | Q. All right. Did you see his   | 20                                    | train me in using it.  |  |  |
| 21       | testimony where he unequivocally testified that                                     | 21                                    | Q. Do you know whether you can run   |  |  |
| 22       | HVE is not an appropriate software to use in a                                      | $\begin{vmatrix} 21\\22\end{vmatrix}$ | a other HVE simulation and compare it to   |  |  |
| 23       | situation like this where you have a complex  | 23                                    | yours and use that as a way to validate the  |  |  |
| 23       |   | 23                                    |  |  |  |
| 1        | Page 291  | 1                                     | Page 293   |  |  |
|          | crush situation? He clearly gave the opinion  |                                       | accuracy of your simulation?   |  |  |
| 2        | that when he teaches classes on this, he  | 2                                     | A. Oh, that's that's like  |  |  |
| 3        | instructs people not to use it in this  | 3                                     | that's a broad, broad can of worms. You know,  |  |  |
| 4        | environment?  | 4                                     | I there's there's about 400 answers to   |  |  |
| 5        | A. Well, that's a conversation you  | 5                                     | that question. I'm not sure what you're  |  |  |
| 6        | and him had because he didn't say that under  | 6                                     | what you're poking at.   |  |  |
| 7        | oath in the deposition.   | 7                                     | Q. All right. I'll put it this way.  |  |  |
| 8        | Q. I would ask you to go back and   | 8                                     | If we ran an actual crash test and we ran it   |  |  |
| 9        | read it. Are you aware of any other simulation                                      | 9                                     | identical to your simulation in this case where                                      |  |  |
| 10       | software that you could have used to run your                                       | 10                                    | the speeds were identical to your simulation,  |  |  |
| 11       | simulations in this case?   | 11                                    | the weights, everything was identical, the   |  |  |
| 12       | A. No.  | 12                                    | impact point offset identical, what should the                                       |  |  |
| 13       | Q. Okay. And I want to go back to my  | 13                                    | result of that actual crash test be? Should it                                       |  |  |
| 14       | question, and this is different. It's I   | 14                                    | mirror your simulation?  |  |  |
| 15       | understand all of your basis to believe that  | 15                                    | A. It should be whatever the answer  |  |  |
| 16       | HVE is an appropriate simulation tool for you                                       | 16                                    | is.  |  |  |
| 17       | to use to test your hypothetical crash at a   | 17                                    | Q. So you can't  |  |  |
| 18       | different height. I understand all of that.   | 18                                    | A. The simulation  |  |  |
| 19       | My question is, is there any independent way  | 19                                    | Q state whether I'm sorry. I   |  |  |
| 20       | for you to verify that your simulation in this                                      | 20                                    | thought you finished.  |  |  |
|          | and wing a commeta?   | 21                                    | A. The simulations is all  |  |  |
| 21       | case was accurate?  | 21                                    |  |  |  |
| 21<br>22 | A. Well, is there an independent way for me to verify that the hand calculations we | 22                                    | calculations are simulations. All simulations are approximations of reality. The the |  |  |

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|    | Bryson, Santana and Joshua V. Rough Country, LLC |    |   |  |  |  |
|----|--|----|---|--|--|--|
|    | Page 294   |    | Page 296  |  |  |  |
| 1  |  |    | (A break was taken.)                            |  |  |  |
| 2  | test if someone would do it that way. And then   | 2  | THE VIDEOGRAPHER: The time is                   |  |  |  |
| 3  | you'd have those results, and you wouldn't need  | 3  | 5:34 p.m. We're back on the record.             |  |  |  |
| 4  | the simulation.                                  | 4  |   |  |  |  |
| 5  | Q. Okay. And so if the results of                | 5  | EXAMINATION                                     |  |  |  |
| 6  | that actual crash test were different than the   | 6  | BY MS. CANNELLA:                                |  |  |  |
| 7  | simulation, you would defer to the actual crash  | 7  | Q. Mr. Buchner, did you do the work             |  |  |  |
| 8  | test, and you wouldn't need the simulator?       | 8  | that's reflected in your May 2024 report to     |  |  |  |
| 9  | A. If it was as you said, yes.                   | 9  | formulate new opinions or to show the work and  |  |  |  |
| 10 | Q. Okay. And if it varied from the               | 10 | how you developed opinions in your original     |  |  |  |
| 11 | actual crash test, would that be evidence to     | 11 | report?   |  |  |  |
| 12 | you that the simulation was not scientifically   | 12 | A. Our amended report was just to               |  |  |  |
| 13 | reliable in predicting the real world crash?     | 13 | provide the basis for the opinions that were    |  |  |  |
| 14 | A. No. A simulation is exactly that.             | 14 | already given. There aren't any new opinions    |  |  |  |
| 15 | It's a simulation. It's it's not the real        | 15 | in there. It was just just trying to make       |  |  |  |
| 16 | world. If you could actually and let's just      | 16 | sure we had the supporting materials.           |  |  |  |
| 17 | be clear here, you are not referring to the      | 17 | Q. And did your opinions base did               |  |  |  |
| 18 | test run by Grimes and                           | 18 | your opinions change based on what was          |  |  |  |
| 19 | Q. No, I'm not.                                  | 19 | disclosed in May?                               |  |  |  |
| 20 | A. Okay. So if someone were to                   | 20 | A. No.  |  |  |  |
| 21 | actually do one along the certain path, it       | 21 | Q. All right. When you were talking             |  |  |  |
| 22 | wouldn't invalidate the simulation because the   | 22 | about working in the simulation files, can you  |  |  |  |
| 23 | simulation is is what it is. It's an             | 23 | explain when you run a simulation and you run   |  |  |  |
|    | Page 295   |    | Page 297  |  |  |  |
| 1  | approximation of reality. It's not reality.      | 1  | different iterations of it, is that akin to,    |  |  |  |
| 2  | But if you had reality, you would use reality.   | 2  | like, editing in a document? Like, in other     |  |  |  |
| 3  | Q. Okay.   | 3  | words, when you run a simulation, do you create |  |  |  |
| 4  | MR. HILL: All right. I believe                   | 4  | a new well, strike that. That's a bad           |  |  |  |
| 5  | that's all I have. Thank you, Mr. Buchner.       | 5  | question.                                       |  |  |  |
| 6  | Sorry if we got a little testy there. That's     | 6  | When you run a simulation, are you creating     |  |  |  |
| 7  | normally not my style. But I I apologize         | 7  | a new thing or are you just editing the the     |  |  |  |
| 8  | for that. And I I know in the future I will      | 8  | inputs that are on the program?                 |  |  |  |
| 9  | try to avoid that. It was a little bit of        | 9  | A. Well, you have to open it. And               |  |  |  |
| 10 | making sure you heard me and a little bit of     | 10 | then once you open it, if you're typing a       |  |  |  |
| 11 | frustration. I appreciate your time, and         | 11 | letter, every paragraph you type is new. It's   |  |  |  |
| 12 | and thank you.                                   | 12 | not it's just every keystroke is new.           |  |  |  |
| 13 | THE WITNESS: Wimbledon is going                  | 13 | You have to build it and work through it. Same  |  |  |  |
| 14 | on right now, and those those competitors        | 14 | thing with simulation. You have to start with,  |  |  |  |
| 15 | are intense and they do their job well and then  | 15 | you know, opening it up, getting the vehicles   |  |  |  |
| 16 | they shake hands at the end. I'm I'm more        | 16 | imported, positioning the vehicles, telling the |  |  |  |
| 17 | than happy to have talked to you today.          | 17 | program what speeds to use, updating the        |  |  |  |
| 18 | MS. CANNELLA: Can we take a break                | 18 | it's just an ongoing typing process, you know,  |  |  |  |
| 19 | and let me just see if I have anything?          | 19 | that doesn't you know, you just keep keep       |  |  |  |
| 20 | MR. HILL: Sure. I need to use                    | 20 | inputting the data until you get it all in      |  |  |  |
| 21 | the restroom anyway. So                          | 21 | there. And it runs using the proper data, and   |  |  |  |
| 22 | THE VIDEOGRAPHER: The time is                    | 22 | then you save it.                               |  |  |  |
| 23 | 5:19 p.m. We're now off the record.              | 23 | Q. So if we were to equate it to                |  |  |  |

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|  | Bryson, Santana and Joshua V. Rough Country, LLC  |  |  |  |  |  |  |
|--|---|--|--|--|--|--|--|
|  | Page 298  |  | Page 300   |  |  |  |  |
| 1  | using a Word software and, you know, we were  | 1  | it's it's, you know, 20 to 30 pounds worth   |  |  |  |  |
| 2  | editing a document as we go along, we could   | 2  | of fluid usually. To a big F-250, maybe it's a   |  |  |  |  |
| 3  | just delete a paragraph or rewrite a paragraph,   | 3  | hair more. But our calculations are not that   |  |  |  |  |
| 4  | for example, we haven't created an entirely new   | 4  | precise. We're we're looking, you know, for  |  |  |  |  |
| 5  | document when we do that; we're just editing  | 5  | a reasonable answer.   |  |  |  |  |
| 6  | that document?  | 6  | Now, we did weigh the vehicles, so it means  |  |  |  |  |
| 7  | A. Right. That's the way it works.  | 7  | we are very close to the weight of the   |  |  |  |  |
| 8  | Q. Okay. So you're kind of inputting  | 8  | vehicles. It's much better than using  |  |  |  |  |
| 9  | different data points or assumptions and then   | 9  | specifications. When you use specifications  |  |  |  |  |
| 10   | seeing what happens in the outcome?   | 10   | they have one weight for virtually every   |  |  |  |  |
| 11   | A. Well, right. You're you're not   | 11   | vehicle that was made that year, you know.   |  |  |  |  |
| 12   | necessarily putting in different assumptions.   | 12   | So it's it's we've already started out   |  |  |  |  |
| 13   | You're you're trying to get the data  | 13   | being more accurate because we actually have   |  |  |  |  |
| 14   | properly input, but it takes time to do that.   | 14   | the vehicles with the various the type of  |  |  |  |  |
| 15   | You do make mistakes too. I mean sometimes the  | 15   | battery. The type of battery can change the  |  |  |  |  |
| 16   | car goes backwards because you've got the   | 16   | weight of a car. We don't ever change the type   |  |  |  |  |
| 17   | velocity stuck in the wrong way. So you got to  | 17   | of battery. But we weigh the car with the  |  |  |  |  |
| 18   | fix that problem.   | 18   | battery that's in it, in it. So you know,  |  |  |  |  |
| 19   | Q. Were any files deleted that you  | 19   | changes of a few hundred pounds usually are  |  |  |  |  |
| 20   | know of?  | 20   | inconsequential. If we think they are  |  |  |  |  |
| 21   | A. No. Other than the somehow   | 21   | consequential, then we'll be, you know, will be  |  |  |  |  |
| 22   | the the original run file or the final run  | 22   | more robust. Usually a few hundred pounds is   |  |  |  |  |
| 23   | file, I can't get it. I don't know where it   | 23   | is inconsequential.  |  |  |  |  |
|  |   |  |  |  |  |  |  |
|  | Page 299  |  | Page 301   |  |  |  |  |
| 1  | Page 299 is. But there's no intent to delete any files.   | 1  | Q. The differences that the  |  |  |  |  |
| 1 2  |   | 1 2  | -  |  |  |  |  |
| _  | is. But there's no intent to delete any files.  | _  | Q. The differences that the  |  |  |  |  |
| 2  | is. But there's no intent to delete any files.<br>It's just updating and keep running. Every now  | 2  | Q. The differences that the Rough Country lawyer asked you about between   |  |  |  |  |
| 2 3  | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something   | 2 3  | Q. The differences that the<br>Rough Country lawyer asked you about between<br>the HVE and the subject wreck or subject  |  |  |  |  |
| 2<br>3<br>4  | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the  | 2 3 4  | Q. The differences that the<br>Rough Country lawyer asked you about between<br>the HVE and the subject wreck or subject<br>vehicles include the fact that the HVE didn't   |  |  |  |  |
| 2<br>3<br>4<br>5   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.   | 2<br>3<br>4<br>5   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I  |  |  |  |  |
| 2<br>3<br>4<br>5<br>6  | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was  | 2<br>3<br>4<br>5<br>6  | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but  |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the   | 2<br>3<br>4<br>5<br>6<br>7   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without   |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8  | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the   | 2<br>3<br>4<br>5<br>6<br>7<br>8  | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of  |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs.  |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it  |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in   |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards in the car and some broken shards out of the   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in the HVE than if you used a structure that had   |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards in the car and some broken shards out of the car. Can you talk a little bit about  | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in the HVE than if you used a structure that had that extra support in it?   |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14                                     | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards in the car and some broken shards out of the car. Can you talk a little bit about differences in weight and when there's kind of   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13   | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in the HVE than if you used a structure that had that extra support in it?  A. Well, HVE does not have the   |  |  |  |  |
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| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18             | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards in the car and some broken shards out of the car. Can you talk a little bit about differences in weight and when there's kind of a tipping point of of how much weight matters when there's variations like that?  A. Well, the vehicles weigh thousands of pounds. You know, we normally don't even consider the the change of weight in a gas tank to be particularly critical. And but as far as glass and, you know, radiator fluid, | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>21 | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in the HVE than if you used a structure that had that extra support in it?  A. Well, HVE does not have the capability to include or exclude a sunroof specifically. What it the way it's included is with the crush stiffness coefficients. So you know, we would so that's actually a user we can put one in that looks like it's got a sunroof. But HVE is really using the data from crash tests or the crush stiffness |  |  |  |  |
| 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20 | is. But there's no intent to delete any files.  It's just updating and keep running. Every now and then a backup will get made or something like that. We're still just working on the same file.  Q. Right. Okay. The there was some discussion about how much or that the fluid had leaked out of the radiator in the subject in the subject F-250 when you weighed it, and the weight of the glass that was broken, and so there was some broken shards in the car and some broken shards out of the car. Can you talk a little bit about differences in weight and when there's kind of a tipping point of of how much weight matters when there's variations like that?  A. Well, the vehicles weigh thousands of pounds. You know, we normally don't even consider the the change of weight in a gas tank to be particularly critical. And but as   | 2<br>3<br>4<br>5<br>6<br>7<br>8<br>9<br>10<br>11<br>12<br>13<br>14<br>15<br>16<br>17<br>18<br>19<br>20       | Q. The differences that the Rough Country lawyer asked you about between the HVE and the subject wreck or subject vehicles include the fact that the HVE didn't have a sunroof in that design using and I think you spoke to this to some degree, but using the sunroof or the the vehicle without the sunroof would actually make the results of your analysis less favorable to Plaintiffs. Correct? In other words, it would mean it would mean that there would be more crush in the HVE than if you used a structure that had that extra support in it?  A. Well, HVE does not have the capability to include or exclude a sunroof specifically. What it the way it's included is with the crush stiffness coefficients. So you know, we would so that's actually a user we can put one in that looks like it's got a sunroof. But HVE is really using the  |  |  |  |  |

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|    | Bryson, Santana and Joshua V. Rough Country, LLC |    |   |  |  |
|----|--|----|---|--|--|
|    | Page 302   |    | Page 304  |  |  |
| 1  | model. It doesn't we tell it about those         | 1  | Q. All right. And so we'll mark that            |  |  |
| 2  | things. The program doesn't know about those     | 2  | as Plaintiff's Exhibit 1.                       |  |  |
| 3  | things. But to know whether or not our data      | 3  | MS. CANNELLA: That's all I have.                |  |  |
| 4  | included a sunroof or not specifically, we'd     | 4  | MR. HILL: That's all the                        |  |  |
| 5  | need to go back you'd have to go back to the     | 5  | questions you have, you said?                   |  |  |
| 6  | original crash tests and things. But in this     | 6  | MS. CANNELLA: Yes.                              |  |  |
| 7  | case, HVE has the number in there. It's robust   | 7  | MR. HILL: All right. I've just                  |  |  |
| 8  | enough for what we were doing with or without.   | 8  | got one quick follow-up based upon what you     |  |  |
| 9  | But if I were going to run a crash test, I       | 9  | just asked.                                     |  |  |
| 10 | would try to get the same vehicle and use it     | 10 |   |  |  |
| 11 | because the roof does get involved in a crash    | 11 | EXAMINATION CONTINUED                           |  |  |
| 12 | test.  | 12 | BY MR. HILL:                                    |  |  |
| 13 | Q. The I was sitting here trying                 | 13 | Q. In this case, Mr. Buchner, do you            |  |  |
| 14 | to think when I've seen HVE used by automakers.  | 14 | intend to give any opinion as to whether        |  |  |
| 15 | And have you seen automakers use HVE to          | 15 | Rough Country could have used HVE prior to this |  |  |
| 16 | simulate NTSA, federal FMVSS testing, dynamic    | 16 | incident to simulate crashes involving vehicles |  |  |
| 17 | testing?   | 17 | with their lift kits in place?                  |  |  |
| 18 | A. Yes. Yes, I've seen studies done              | 18 | A. I know they could have considered            |  |  |
| 19 | using it to try to predict what will happen      | 19 | it. I don't know if they could have. I'd have   |  |  |
| 20 | in in accidents or crashes of of designed        | 20 | to do a little consideration and come up with   |  |  |
| 21 | like various crash test and whatnot.             | 21 | an exact answer. But it's one of the tools      |  |  |
| 22 | Q. Okay. And the government                      | 22 | that is available for consideration, yes.       |  |  |
| 23 | accepts accepts the certifications based on      | 23 | Q. I believe you've testified that              |  |  |
|    | Page 303   |    | Page 305  |  |  |
| 1  | HVE-type testing?                                | 1  | you did not use HVE to simulate the actual      |  |  |
| 2  | A. Right. The government doesn't                 | 2  | crash in this case because the override would   |  |  |
| 3  | require a crash test. They just require the      | 3  | prevent the program from being designed as      |  |  |
| 4  | manufacturer to certify that if they do, do the  | 4  | used, which is when there's bumper-to-bumper or |  |  |
| 5  | crash test, it will pass it. And the             | 5  | structure-to-structure impact.                  |  |  |
| 6  | manufacturers have lots of tools at that. And    | 6  | MS. CANNELLA: This is outside the               |  |  |
| 7  | HVE is one of those types of tools, just like    | 7  | scope of the supplemental report.               |  |  |
| 8  | the government has HVE available to do a study   | 8  | Q. Go ahead.                                    |  |  |
| 9  | if they want to avoid all of the expenses of     | 9  | A. That's not exactly                           |  |  |
| 10 | doing actual crash testing. So I'm pretty sure   | 10 | MS. CANNELLA: There's no                        |  |  |
| 11 | all of that is common in the industry. I         | 11 | question.                                       |  |  |
| 12 | didn't pull any reference to that. I didn't      | 12 | A. Okay. I don't think that that's              |  |  |
| 13 | expect that to be an issue here. But yes, it     | 13 | what I said, but thank you.                     |  |  |
| 14 | can be used for those types of things. And in    | 14 | Q. Well, was there any testimony that           |  |  |
| 15 | my opinion, it has.                              | 15 | you gave in your original deposition regarding  |  |  |
| 16 | Q. Okay. And I'm going to mark the               | 16 | the usage of HVE that you intend to change      |  |  |
| 17 | visual that Rough Country showed you as          | 17 | based upon your supplemental work in this case  |  |  |
| 18 | Plaintiff's Exhibit 1 to your deposition. I      | 18 | and since the time of your first deposition?    |  |  |
| 19 | can share my screen and pull that up. One        | 19 | MS. CANNELLA: Object to the form                |  |  |
| 20 | second. Okay. Can you see that?                  | 20 | of the question. It's vague.                    |  |  |
| 21 | (Plaintiff's Exhibit Number 1                    | 21 | A. Yeah, I I actually haven't I                 |  |  |
| 22 | is marked for identification.)                   | 22 | can't tell you exactly what I said in the first |  |  |
| 23 | A. I can.  | 23 | deposition.                                     |  |  |
| 1  |  | 1  | •   |  |  |

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|     | Bryson, Santana and Josh   |  |  |
|-----|--|--|--|
| 1   | Page 306   | 1                                      | Page 308   |
| 1   | Q. Right. But as we go ahead.  | $\begin{vmatrix} 1 \\ 2 \end{vmatrix}$ | A. Yeah. But there's no there's                      |
| 3   | Sorry. I thought you were finished.  A. I did the best I could to answer | 2                                      | no one exact right answer. I mean, if it's           |
| l . |  | 3                                      | a if it's a motor scooter off by 200 pounds,         |
| 4   | the questions at the time. But I don't I                                 | 4                                      | we've got a real problem. If it's a tractor          |
| 5   | don't have any comments one way or the other as I sit here.              | 5                                      | trailer off by 200 pounds, it's more than irrelevant |
| 6   |  | 6                                      |  |
| 7   | Q. Okay. And how how do you  | 0                                      | Q. Well, I'm talking about vehicles                  |
| 8   | define a couple hundred pounds? Just to make                             | 8                                      | in this case.  |
| 9   | sure there's no discrepancy there, in answering                          | 9                                      | A. I know. I know. But we've got                     |
| 10  | those in all those questions, I believe you                              | 10                                     | one really big vehicle and one smaller vehicle.      |
| 11  | said a couple hundred pounds this way or that                            | 11                                     | So you know, the big vehicle, you can have much      |
| 12  | way is not a weight that would concern you.                              | 12                                     | larger discrepancies and it's irrelevant than        |
| 13  | What what is a couple hundred pounds?                                    | 13                                     | the smaller vehicle. So there isn't one answer       |
| 14  | A. I thought I actually said a few                                       | 14                                     | for this. We want to be close. We like to            |
| 15  | hundred pounds.  | 15                                     | be a hundred pounds I'm not even going to            |
| 16  | Q. Yeah. So what's a few. Yep.   | 16                                     | bat an eye at. Two hundred pounds, that's            |
| 17  | Thank you for correcting me.   | 17                                     | normal between experts to be off a couple            |
| 18  | A. Just starting out for vehicles of                                     | 18                                     | hundred pounds. I'm not arguing about that. I        |
| 19  | this size, you know, 300 pounds if it was                                | 19                                     | don't think Mr. Grimes is either. He says our        |
| 20  | getting close to 300 pounds, I might start                               | 20                                     | weights are different but our weight ratios          |
| 21  | worrying about it. But you know, I don't in                              | 21                                     | are, you know, very close to the same. You           |
| 22  | this case we tried to get the the weights                                | 22                                     | know, we have a depth of knowledge that's            |
| 23  | more accurate. That's why we weighed it. I                               | 23                                     | greater than just 200 pounds is the go or            |
|     | Page 307   |  | Page 309   |
| 1   | had those vehicles weighed. I made sure they                             | 1                                      |  |
| 2   | were weighed so we had the best starting point                           | 2                                      | reasonably close. And at a few hundred pounds,       |
| 3   | we could. So little things like a lit bit of                             | 3                                      | that's generally always reasonably close.            |
| 4   | radiator fluid is is inconsequential.                                    | 4                                      | Q. Okay. Great.                                      |
| 5   | Because if you just use the specs, you don't                             | 5                                      | MR. HILL: Thank you for your                         |
| 6   | know how far off you are when you're starting.                           | 6                                      | time. That's all I have.                             |
| 7   | The specs are in my experience, with all the                             | 7                                      | THE WITNESS: Okay.                                   |
| 8   | number of vehicles that I have weighed, I've                             | 8                                      | THE VIDEOGRAPHER: Anything                           |
| 9   | had them off over a thousand pounds. So you                              | 9                                      | further?   |
| 10  | know, in this case I wanted it close. I wanted                           | 10                                     | MS. CANNELLA: No.                                    |
| 11  | it within, you know, one or two hundred pounds                           |  | THE VIDEOGRAPHER: All right.                         |
| 12  | for sure. So we we weighed them and then                                 | 12                                     | This concludes the videotaped deposition.            |
| 13  | added in reasonable weights.   | 13                                     | We're off the record at 5:48 p.m.                    |
| 14  | Q. Sure.   | 14                                     | MS. CANNELLA: Do you want to read                    |
| 15  | A. But I don't have an exact number.                                     | 15                                     | and sign?  |
| 16  | But we're we're close enough for what I've                               | 16                                     | THE WITNESS: I want to read.                         |
| 17  | done it for the work that I've done. I'm                                 | 17                                     |  |
| 18  | sure of that.  | 18                                     |  |
| 19  | Q. Sure. So if the weights are   | 19                                     | (The deposition ended at 5:50 p.m. EST.)             |
| 20  | within 200 pounds, you would consider that to                            | 20                                     |  |
| 21  | be accurate enough accurate enough from a                                | 21                                     |  |
| 22  | weight perspective to properly test the                                  | 22                                     |  |
| 23  | vehicles?  | 23                                     |  |

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|  | Page 310  |  | Page 312   |
|--|---|--|--|
| 1  | REPORTER'S CERTIFICATE  | 1  | Bryson, Santana And Joshua v. Rough Country, LLC   |
| 2  | STATE OF ALABAMA,   | 2  | G. Bryant Buchner (#6793607)   |
| 3  | BALDWIN COUNTY,   | 3  | ERRATA SHEET   |
| 4  | I, Paul Morse, Certified Court Reporter   | 4  | PAGELINECHANGE   |
| 5  | and Commissioner for the State of Alabama at  | 5  |  |
| 6  | Large, do hereby certify that the above and   | 6  | REASON   |
| 7  | foregoing proceedings was taken down by me by   | 7  | PAGELINECHANGE   |
| 8  | stenographic means, and that the content herein   | 8  |  |
| 9  | was produced in transcript form by computer aid   | 9  | REASON   |
| 10   | under my supervision, and that the foregoing  | 10   | PAGE LINE CHANGE   |
| 11   | represents, to the best of my ability, a true   | 11   |  |
| 12   | and correct transcript of the proceedings   | 12   | REASON   |
| 13   | occurring on said date and at said time.  | 13   | PAGELINECHANGE   |
| 14   | I further certify that I am neither of  | 14   |  |
| 15   | kin nor of counsel to the parties to the action   |  | REASON   |
| 16   | nor in any manner interested in the result of   |  | PAGELINECHANGE   |
| 17   | said case.  | 17   |  |
| 18   | said case.  |  | REASON   |
| 19   |   |  | PAGELINECHANGE   |
| 20   |   | 20   | PELGON   |
| 21   |   |  | REASON   |
| 21   | Tal min   | 22 23  |  |
| 22   | Paul Morse, CCR   |  | G. Bryant Buchner Date   |
| 23   | ACCR #588 Expires 9/30/24   | 25   | G. Bryant Buchner Date   |
|  | Treett #500 Expires 5/50/21   | 23   |  |
|  | D 044   |  | D 040  |
| 1  | Page 311  | 1  | Page 313   |
| 1  | Tedra L. Cannella   |  | Bryson, Santana And Joshua v. Rough Country, LLC   |
| 2  | Tedra L. Cannella tedra@cannellasnyder.com  | 2  | Bryson, Santana And Joshua v. Rough Country, LLC<br>G. Bryant Buchner (#6793607)   |
| 2 3  | Tedra L. Cannella<br>tedra@cannellasnyder.com<br>August 2, 2024   | 2  | Bryson, Santana And Joshua v. Rough Country, LLC G. Bryant Buchner (#6793607)  ACKNOWLEDGEMENT OF DEPONENT   |
| 2<br>3<br>4  | Tedra L. Cannella tedra@cannellasnyder.com August 2, 2024 RE: Bryson, Santana And Joshua v. Rough Country, LLC  | 2<br>3<br>4  | Bryson, Santana And Joshua v. Rough Country, LLC G. Bryant Buchner (#6793607)  ACKNOWLEDGEMENT OF DEPONENT I, G. Bryant Buchner, do hereby declare that I  |
| 2<br>3<br>4<br>5   | Tedra L. Cannella tedra@cannellasnyder.com August 2, 2024 RE: Bryson, Santana And Joshua v. Rough Country, LLC 7/11/2024, G. Bryant Buchner (#6793607)  | 2<br>3<br>4<br>5   | Bryson, Santana And Joshua v. Rough Country, LLC G. Bryant Buchner (#6793607)  ACKNOWLEDGEMENT OF DEPONENT I, G. Bryant Buchner, do hereby declare that I have read the foregoing transcript, I have made any  |
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# Federal Rules of Civil Procedure Rule 30

- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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